Navpixel™ Series

NPS1535

NPS1735

NPS1935

USER MANUAL

15”/17”/19” IP-65 Marine Display Panel PC

Sunlight Readable LED B/L LCD

(1st Edition 7/15/2009)

All information is subject to change without notice.

RECORD OF REVISION

Version	Date	Description	Remark
V1.0	7/21/2009	Initial Release	
V1.1	7/24/2009	Add extension 400mm USB cable * 1	Page8

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USAGE NOTICE

WARNING!

01. To reduce the risk of electric shock, do not remove the cover or back. There are no user-serviceable parts inside.
02. Make sure you turn off and unplug the the display before installing devices.

EMC conformance

All Navpixel™ equipment and accessories are designed to the best industry standards for use in the recreational marine environment. The design and manufacture of Navpixel™ equipment and accessories conform to the appropriate Electro Magnetic Compatibility (EMC) standards, but correct installation is required to ensure that performance is not compromised.

Waste Electrical and Electronic Equipment Directive

The Waste Electrical and Electronic Equipment (WEEE) Directive requires the recycling of waste electrical and electronic equipment. Whilst the WEEE Directive does not apply to some of Navpixel™' products, we support its policy and ask you to be aware of how to dispose of this product.
The crossed out wheelie bin symbol, illustrated above, and found on our products signifies that this product should not be disposed of in general waste or landfill. Please contact your local dealer, national distributor or Navpixel™ Technical Services for information on product disposal.

Restriction of the use of certain Hazardous Substances

This product uses components that comply with the requirements of the Restriction of the use of certain Hazardous Substances (RoHS) Directive 2002/95/ EC.

Warranty

To register your new Navpixel™ product, please go to:

www.navpixel.com.

It is important that you complete the owner information to receive full warranty benefits, including notification of software updates if they are required.

ORDERING INFORMATION

Model Number Description

Model	Description
NPS1535-ETAW-142-A01	15" LED B/L 1000 Nits ,Touch Screen(Transparency:80%), Intel Celeron M 1.86GHz,DDR II DIMM 1GB,RJ45x2, USBx4,COMx2,AC 100~240V,HDD/160GB,AOT,WP
NPS1735-ETAW-142-A01	17" LED B/L 1000 Nits ,Touch Screen(Transparency:80%), Intel Celeron M 1.86GHz,DDR II DIMM 1GB,RJ45x2, USBx4,COMx2,AC 100~240V,HDD/160GB,AOT,WP
NPS1935-ETAW-142-A01	17" LED B/L 1000 Nits ,Touch Screen(Transparency:80%), Intel Celeron M 1.86GHz,DDR II DIMM 1GB,RJ45x2, USBx4,COMx2,AC 100~240V,HDD/160GB,AOT,WP
NPS1535-ETAW-363-A01	15" LED B/L 1000 Nits ,Touch Screen(Transparency:80%), Intel Core 2 Duo 2.16GHz,DDR II DIMM 2GB,RJ45x2, USBx4,COMx2,AC 100~240V,HDD/160GB,AOT,WP
NPS1735-ETAW-363-A01	17" LED B/L 1000 Nits ,Touch Screen(Transparency:80%), Intel Core 2 Duo 2.16GHz,DDR II DIMM 2GB,RJ45x2, USBx4,COMx2,AC 100~240V,HDD/160GB,AOT,WP
NPS1935-ETAW-363-A01	19" LED B/L 1000 Nits ,Touch Screen(Transparency:80%), Intel Core 2 Duo 2.16GHz,DDR II DIMM 2GB,RJ45x2, USBx4,COMx2,AC 100~240V,HDD/160GB,AOT,WP
NPS1535-ETAW-142-A02	15" LED B/L 1000 Nits ,Touch Screen(Transparency:80%), Intel Celeron M 1.86GHz,DDR II DIMM 1GB,RJ45x2, USBx4,COMx2,DC 10~30V,HDD/160GB,AOT,WP
NPS1735-ETAW-142-A02	17" LED B/L 1000 Nits ,Touch Screen(Transparency:80%), Intel Celeron M 1.86GHz,DDR II DIMM 1GB,RJ45x2, USBx4,COMx2,DC 10~30V,HDD/160GB,AOT,WP
NPS1935-ETAW-142-A02	19" LED B/L 1000 Nits ,Touch Screen(Transparency:80%), Intel Celeron M 1.86GHz,DDR II DIMM 1GB,RJ45x2, USBx4,COMx2,DC 10~30V,HDD/160GB,AOT,WP
NPS1535-ETAW-363-A02	15" LED B/L 1000 Nits ,Touch Screen(Transparency:80%), Intel Core 2 Duo 2.16GHz,DDR II DIMM 2GB,RJ45x2, USBx4,COMx2,DC 10~30V,HDD/160GB,AOT,WP
NPS1735-ETAW-363-A02	17" LED B/L 1000 Nits ,Touch Screen(Transparency:80%), Intel Core 2 Duo 2.16GHz,DDR II DIMM 2GB,RJ45x2, USBx4,COMx2,DC 10~30V,HDD/160GB,AOT,WP
NPS1935-ETAW-363-A02	19" LED B/L 1000 Nits ,Touch Screen(Transparency:80%), Intel Core 2 Duo 2.16GHz,DDR II DIMM 2GB,RJ45x2, USBx4,COMx2,DC 10~30V,HDD/160GB,AOT,WP

1. INTRODUCTION

About Navpixel™ Marine Display Panel PC

Navpixel™ NPS1535, NPS1735 or NPS1935 Intel™ Celeron® M / Core 2 Duo based design panel PC. The extremely high performance with low power consumption computing solution also supports SATA interface that provides higher data rate and lower CPU usage. Because of the special aluminum alloy casing design, can resist corrosion from most acids and alkaline working environments. In addition, the easy cleaning attribute makes it the first choice for strict hygiene workplaces such as hospital, marine industry, abattoirs and other food processing plants.

1.1 FEATURES

- Scalable LCD Display 15", 17" and 19" TFT Panel PC
- Intel™ Celeron® M / Core 2 Duo Based Design
- 1000 Nits Sunlight Readable
- Long Life, Low Power Consumption LED backlight
- Advanced Optical Bonding (AOT) Powered by OptiBond™ Technology
- High Shock & Vibration Resistance
- IP-65 Front Waterproof panel PC
- Resistive Touch Screen Support
- Support Screen night mode dimming control
- Support light sensor mode dimming control
- Ruggedized panel design
- Windows XP, Windows XP Embedded Support
- 10~30V DC power input support

1.2 APPLICATION:

- Marine
- Food Processing Factory
- Chemical
- Pharmaceutical
- POS

1.3 SYSTEM GENERAL SPECIFICATI0NS:

System	
Processor	Supports Intel® Core 2 Duo (Merom)/ Core Duo/ Core Solo/ Celeron M (Yonah) Processors
System Memory	240-pin DIMM x 2, DDRII 400/533/667 up to 4GB
Chipset	Intel® 945GM + ICH7M
I/O Chipset	ICH7-M + IT8712F-KX
Ethernet	Intel 82573L 10/100/1000Base-TX, RJ-45 x 2
BIOS	Award Plug & Play BIOS – 1MB ROM
Expansion Interface	Mini PCI x 1
Power Requirement Power Consumption (Typical)	NPS1535: 80W NPS1735/1935: 120W
Operating Temperature	-10~40°C

Operating Humidity	5~95%, non-condensing		
MTBF	60,000		
IO			
Storage Serial Port	SATA II , CompactFlash x 1 RS-232 x1, RS-232/422/485 x 1		
Audio	MIC-In, Line-In, Line-out, Stereo amplifier included		
USB	USB 2.0 x 4		
K/B and Mouse	PS/2 Keyboard x 1, and PS/2 Mouse x1		
Power Input	AC110 ~ 240V 10~30VDC (Optional)		
Panel Specification	NPS1535	NPS1735	NPS1935
Display Area	304.128(H)x 228.096(V)	337.920(H) × 270.336(V)	376.32 (H) x 301.06 (V)
Brightness	1000nits	1000nits	1000nits
Resolution	1024x768 (XGA)	1280x1024 (SXGA)	1280x1024 (SXGA)
Pixel Pitch (mm)	0.297(H) x 0.297(V)	0.264(H) x 0.264(V)	0.294(H) x 0.294(V)
Contrast Ratio	700:1	800:1	800:1
Display Color	16.2M	16.7M	16.7M
Response Time	8ms(Typ.)	5ms(Typ.)	5ms(Typ.)
AOT	Advanced Optical Bonding	Advanced Optical Bonding	Advanced Optical Bonding
Touch Screen	5-wire resistive	5-wire resistive	5-wire resistive

2. PACKAGING CONTENTS

The Navpixel™ NPS1535, NPS1735 or NPS1935 is shipped in a box with PE foam packaging. It is recommended the installer save the box and all packaging materials in case the unit would need to be returned to the Service Center or local dealer. (Figure 1)

Accessories Kit:

- One Navpixel™ unit (NPS1535, NPS1735 or NPS1935)
- System CD driver include user manual * 1
- User CD with touch screen driver * 1
- Flush mount lock * 4
- Extension 400mm USB cable * 1

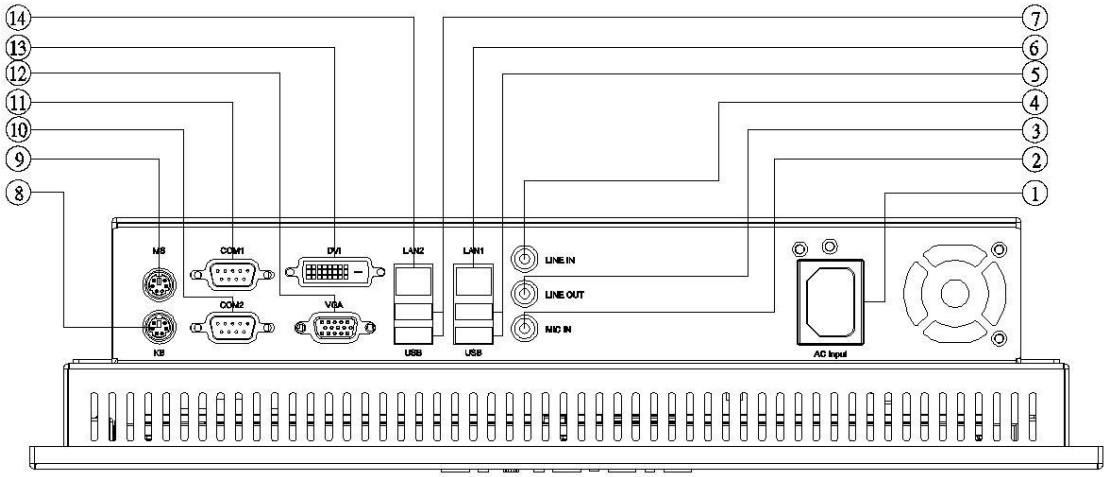
(Figure 1)

If any of these items should be missing or damaged, please contact your distributor or sales representative immediately.

3. CONNECTORS

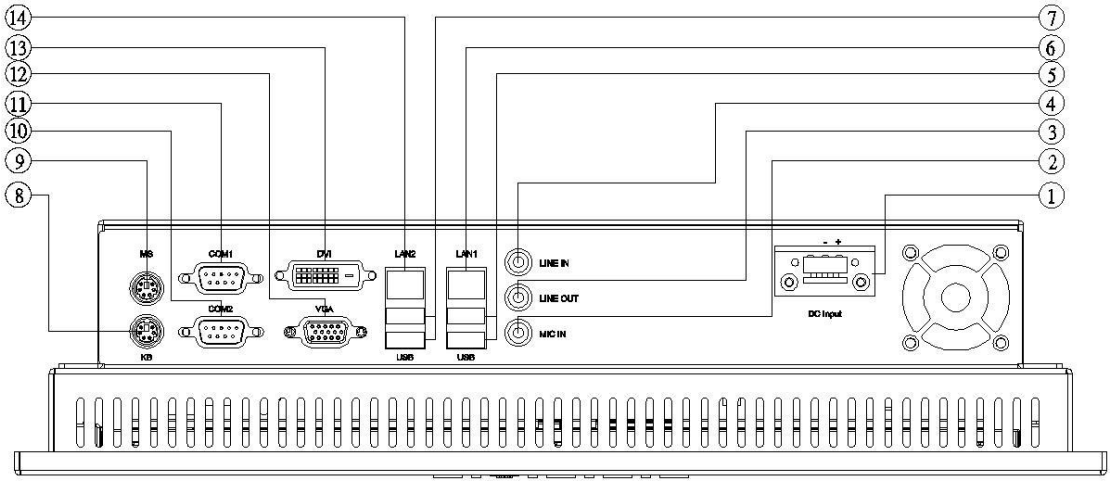
Connectors are located on the bottom of the unit housing, from left to right (Figure 2) for the AC input 100~240V & (Figure 3) DC input 10~30V.
Connectors are physically unique to insure the installer makes the proper connections.

Figure 2: AC100~240V power input



Ports: 1: AC Input 2: MIC 3: Line Out 4: Line In 5: USB x2 6: LAN1
7: USB x2 8: PSII Keyboard 9: PSII Mouse 10:COM2
11:COM1 12:VGA 13: DVI 14: LAN2

Figure 3: DC10~30V power input



Ports: 1: AC Input 2: MIC 3: Line Out 4: Line In 5: USB x2 6: LAN1
7: USB x2 8: PSII Keyboard 9: PSII Mouse 10:COM2
11:COM1 12:VGA 13: DVI 14: LAN2

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4. HARDWARE & DRIVER INSTALLATIONS

4.1 Hardware Installation

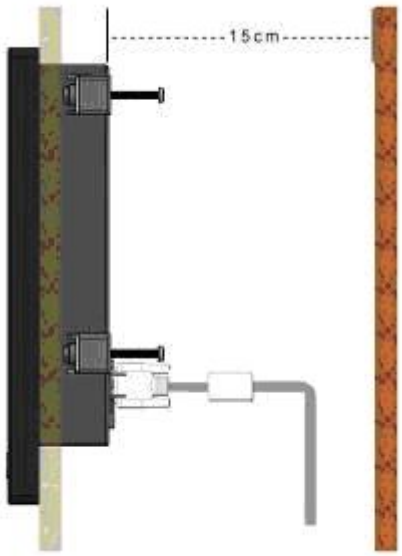
The Navpixel™ NPS1535, NPS1735 or NPS1935 is designed to be mounted in two configurations:

It is important that your new display is installed and operated in accordance with the instructions provided in this handbook. Failure to do so could result in poor product performance and may invalidate your warranty.

When planning the installation the following points must be considered:
• Your Navpixel™ display is sunlight viewable and visible in direct sunlight..
• If temperatures exceed the normal temperature operating range the display could overheat and begin to blackout due to the limitations of TFT LCD technology.
• In order to minimize the chances of a malfunction, the following precautions should be taken during installation:

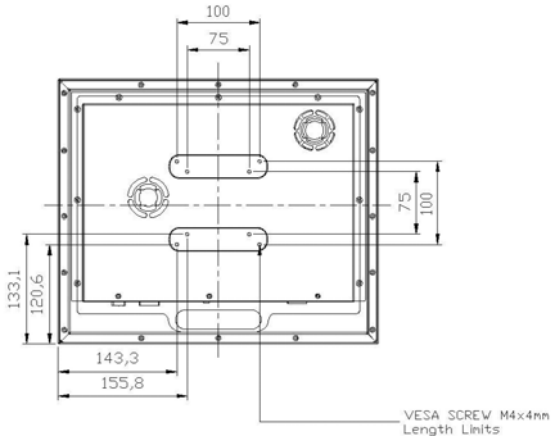
- The display should be installed in an area where there is proper and adequate ventilation (min. 15cm clearance) . If it is possible to cool the area behind the display, it will significantly reduce the risk of a malfunction.
- The display should be mounted at an angle to the sun. We do not recommend mounting the unit in a flat plane, which increases the surface area exposed to the sun and leads to increased heat absorption.

IMPORTANT: Your Navpixel™ display is only waterproof from the front. To maintain watertight integrity the display must be flush mounted ensuring that the rear casing is enclosed in a watertight enclosure.



4.1.1 VESA75 / VESA100 MOUNT

The Navpixel™ NPS1535, NPS1735 or NPS1935 is designed compatible with VESA75 and VESA100 mount. By installing the monitor with this kit, the user can adjust the viewing angle to improve view ability in changing environments. This mounting system has proven to be successful in supporting an extreme amount of weight in high vibration and difficult-mount applications.



Mounting from rear:

- VESA75 (4 hole pattern). Accepts M4x0.7 up to 4mm depth.
- VESA100 (4 hole pattern) Accepts M4x0.7 up to 4mm depth.

4.1.2 PANEL (Flush) MOUNT

For installation, there are four tapped mounting holes on the two sides of the unit's panel. The mounting hardware packet is included with the product accessories in the shipping box. This packet includes four (4) stainless steel threaded studs, 3.2 cm and four (4) mounting lock nuts.

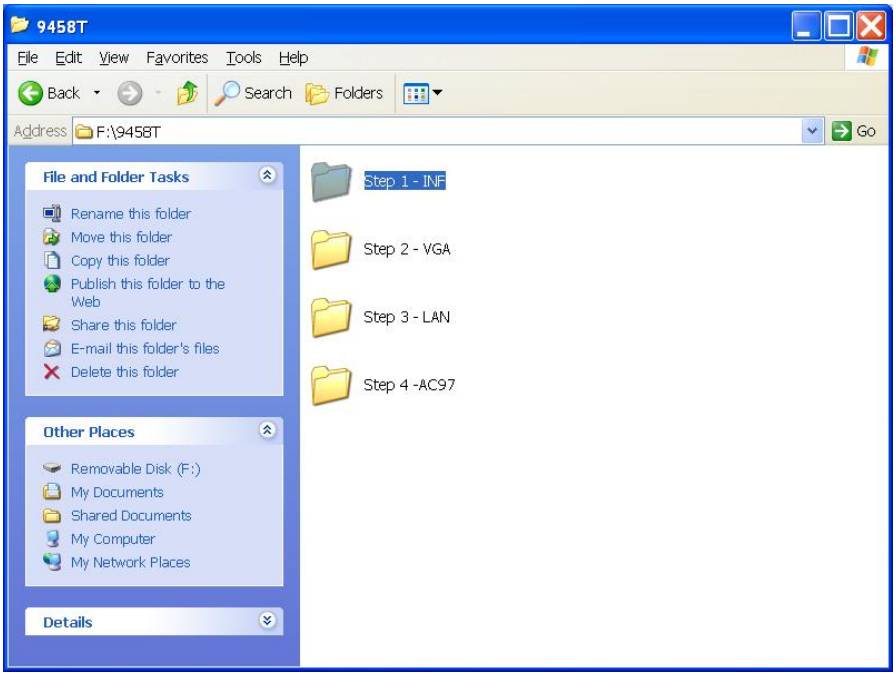
Your monitor can be installed using the mounting lock nuts (supplied) in the vertical keyways. Make sure that both brackets are in the same orientation.

4.2 Driver Installation

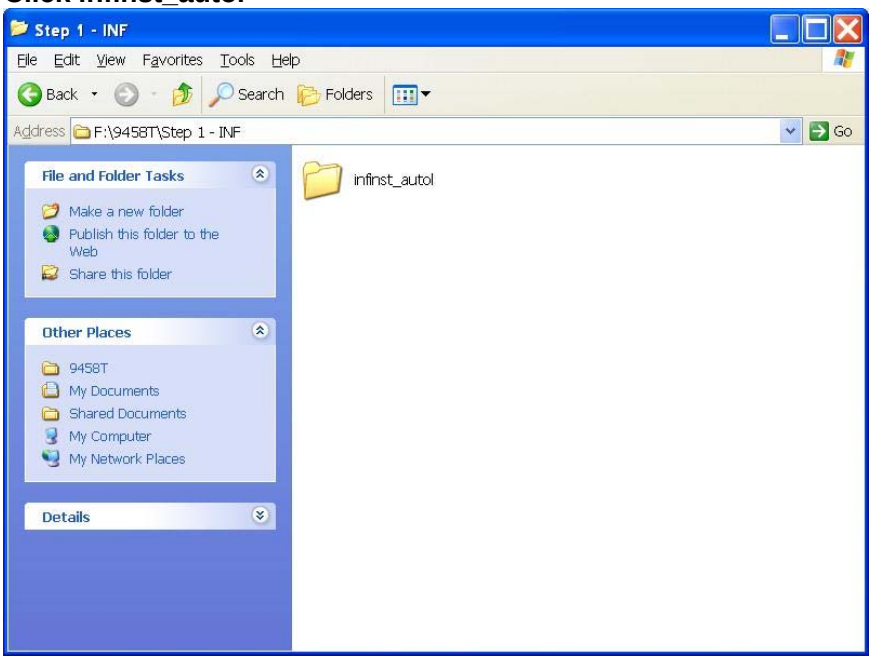
These utilities can be found on the CD-ROM in this package, insert the installation CD into the CD ROM device. As the picture shows install main board drivers as follows:
Step 1 – Install INF Driver
Step 2 – Install VGA Driver
Step 3 – Install LAN Driver
Step 4 – Install Audio Driver
Step 5 – Install Touch Driver

4.2.1 Step 1 - Install INF Driver

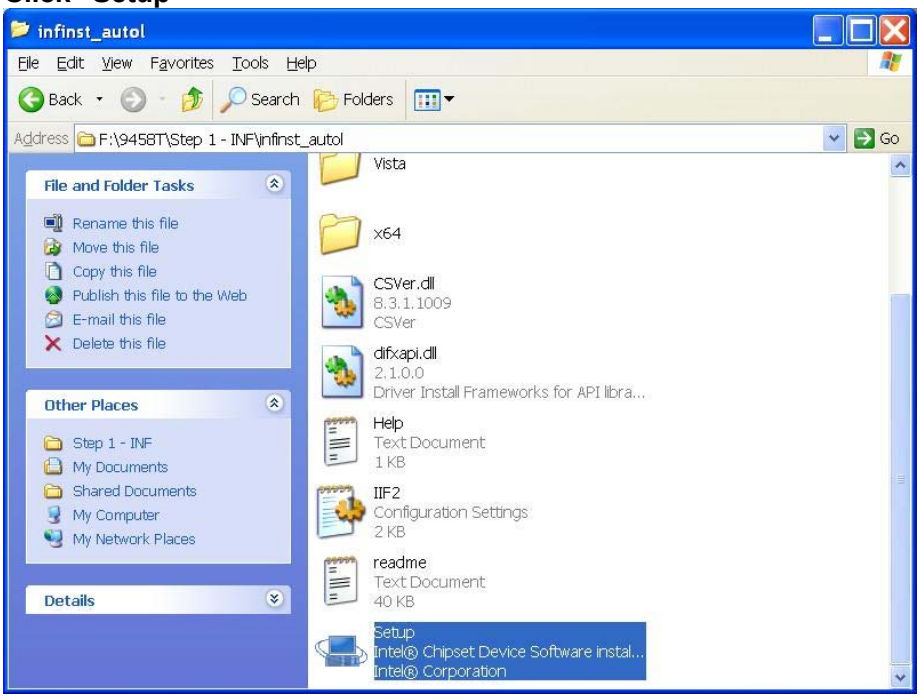
Select "Intel inf." driver



Click infinst_autol



Click “Setup”



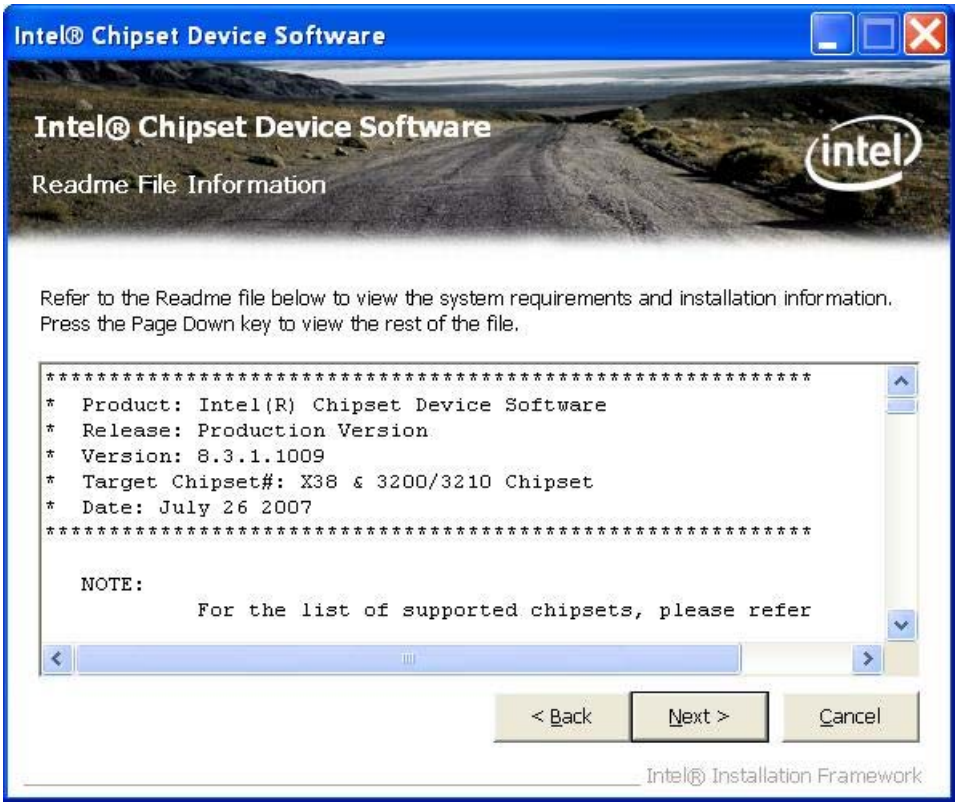
Click “Next”

Intel® Chipset Device Software
Intel® Chipset Device Software
intel
Welcome to the Setup Program
This setup program will install the Intel® Chipset Device Software onto this computer. It is strongly recommended that you exit all programs before continuing.
< Back
Next >
Cancel
Intel® Installation Framework

Click “Yes”

Intel® Chipset Device Software
Intel® Chipset Device Software
License Agreement
intel
You must accept all of the terms of the license agreement in order to continue the setup program. Do you accept the terms?
INTEL SOFTWARE LICENSE AGREEMENT (OEM / IHV / ISV Distribution & Single User)
IMPORTANT - READ BEFORE COPYING, INSTALLING OR USING.
Do not use or load this software and any associated materials (collectively, the "Software") until you have carefully read the following terms and conditions. By loading or using the Software, you agree to the terms of this Agreement. If you do not wish to so agree, do not install or use the Software.
Please Also Note:
* If you are an Original Equipment Manufacturer (OEM), Independent Hardware Vendor (IHV), or Independent Software Vendor (ISV), this complete LICENSE AGREEMENT applies;
< Back
Yes
No
Intel® Installation Framework

Click “Next”

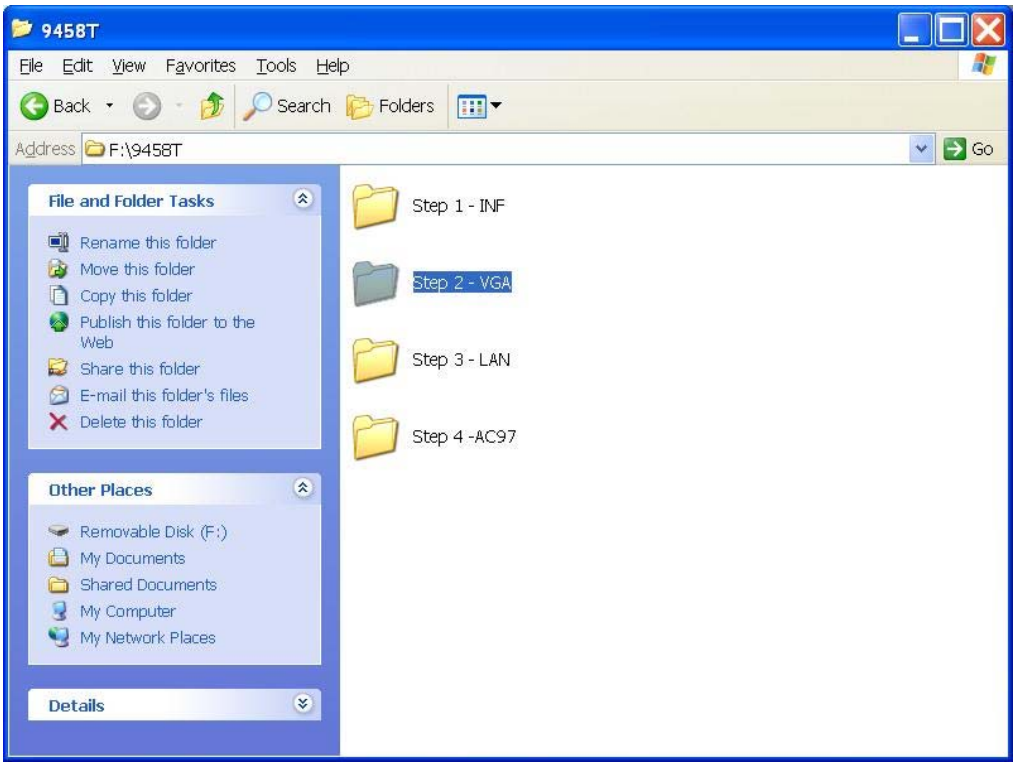

Intel® Chipset Device Software
Intel® Chipset Device Software
Readme File Information
intel
Refer to the Readme file below to view the system requirements and installation information. Press the Page Down key to view the rest of the file.
****
* Product: Intel(R) Chipset Device Software
* Release: Production Version
* Version: 8.3.1.1009
* Target Chipset#: X38 & 3200/3210 Chipset
* Date: July 26 2007
****
NOTE:
For the list of supported chipsets, please refer
< Back
Next >
Cancel
Intel® Installation Framework

Click “Finish”, and then restart the system.

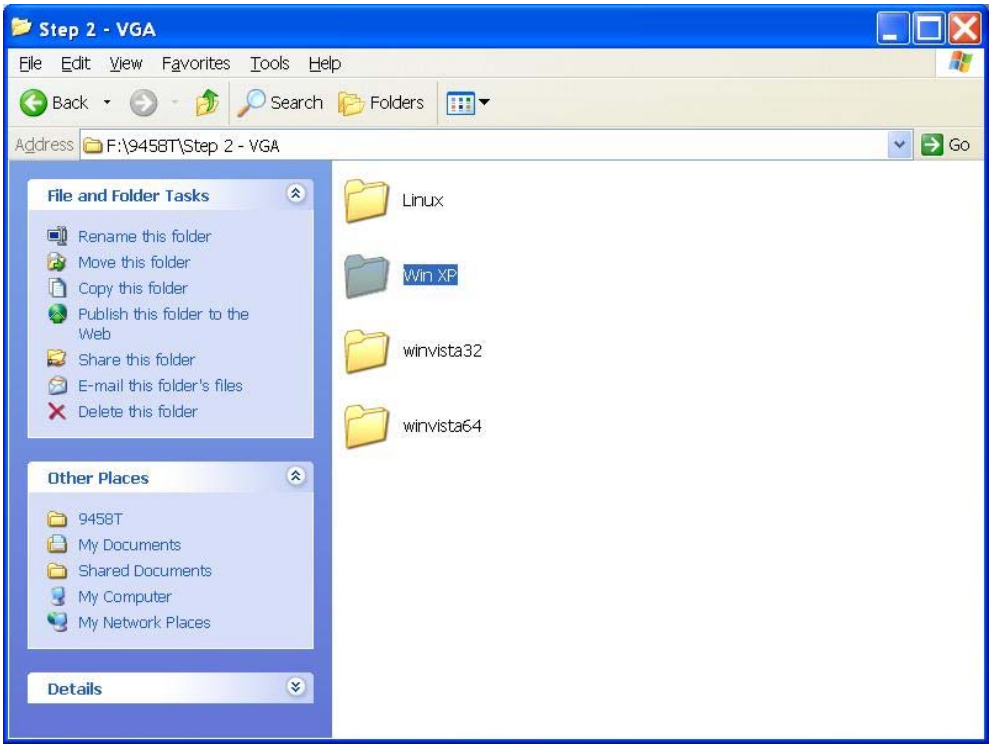
Intel® Chipset Device Software
Intel® Chipset Device Software
Setup Is Complete
intel
The setup program successfully installed the Intel® Chipset Device Software onto this computer. Click Finish to complete the setup process.
Finish
Intel® Installation Framework

4.2.2 Step2 - Install VGA Driver

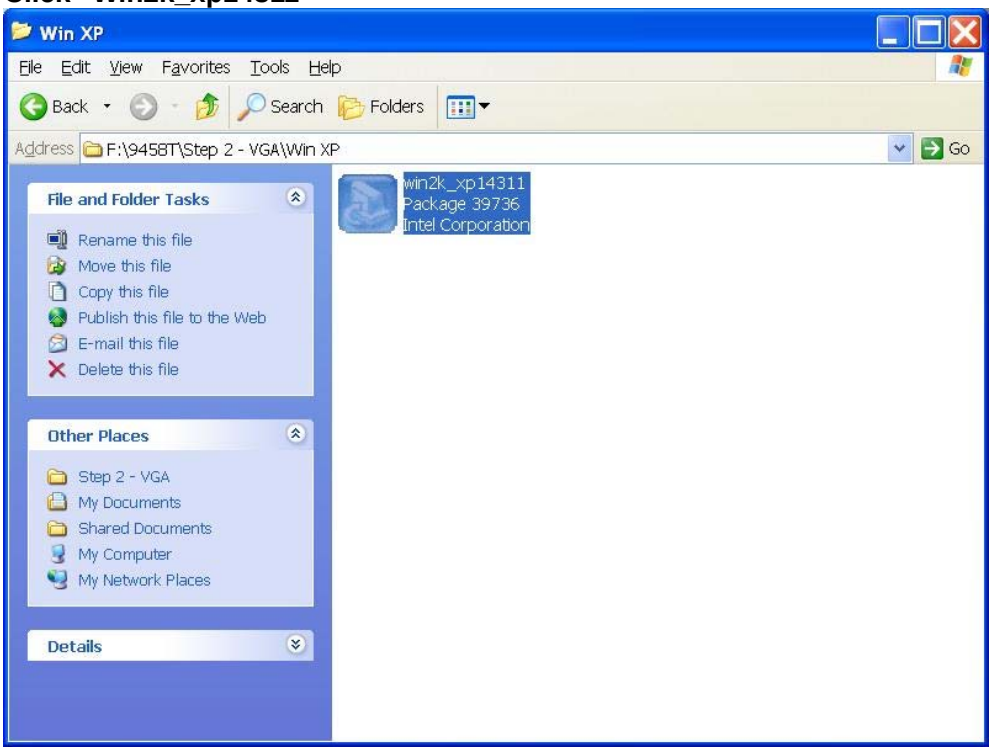
Select “VGA “driver



Select “WinXP”



Click “Win2k_xp14311”



Click “Next”

Intel(R) Chipset Graphics Driver Software - InstallShield Wizard
****
* Production Version Releases
* Microsoft Windows* XP
* Driver Revision: PV 14.31.1
* Package: 39636
* Graphics: 6.14.10.4864
* HDMI Audio: 5.10.0.1030
* September 5, 2007
* NOTE: This document refers to systems containing the
following Intel chipsets:
< Back
Next >
Cancel

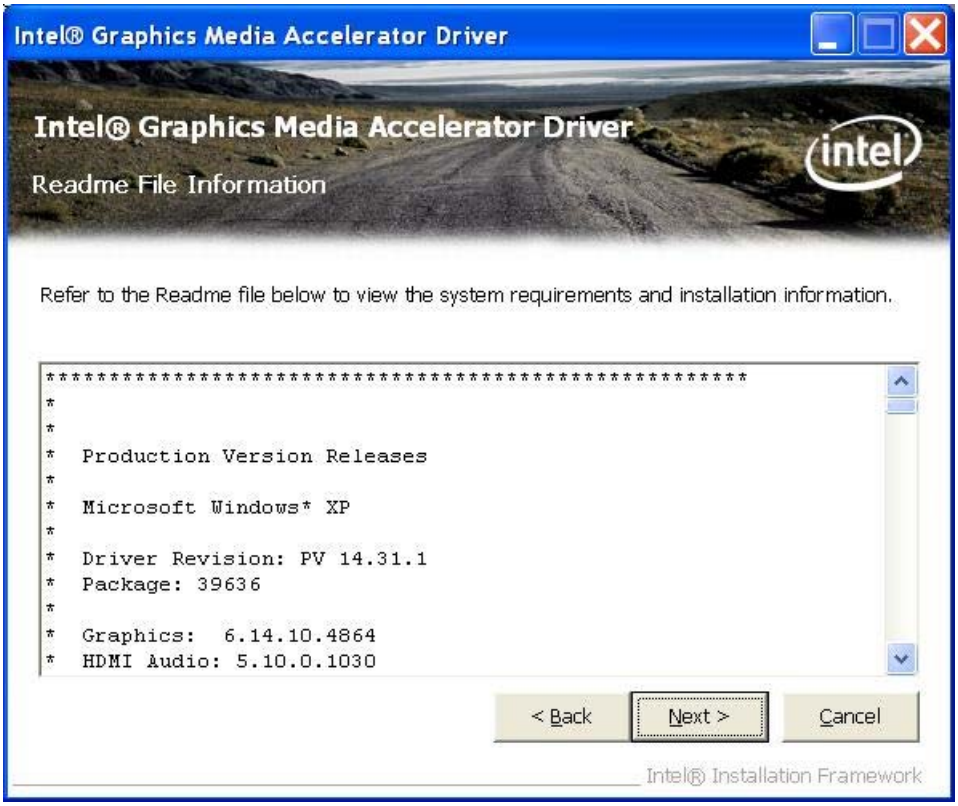
Click “Next”

Intel® Graphics Media Accelerator Driver
Intel® Graphics Media Accelerator Driver
Welcome to the Setup Program
This setup program will install the Intel® Graphics Media Accelerator Driver onto this computer. It is strongly recommended that you exit all programs before continuing. Click Next to continue.
< Back
Next >
Cancel
Intel® Installation Framework

Click “Yes”

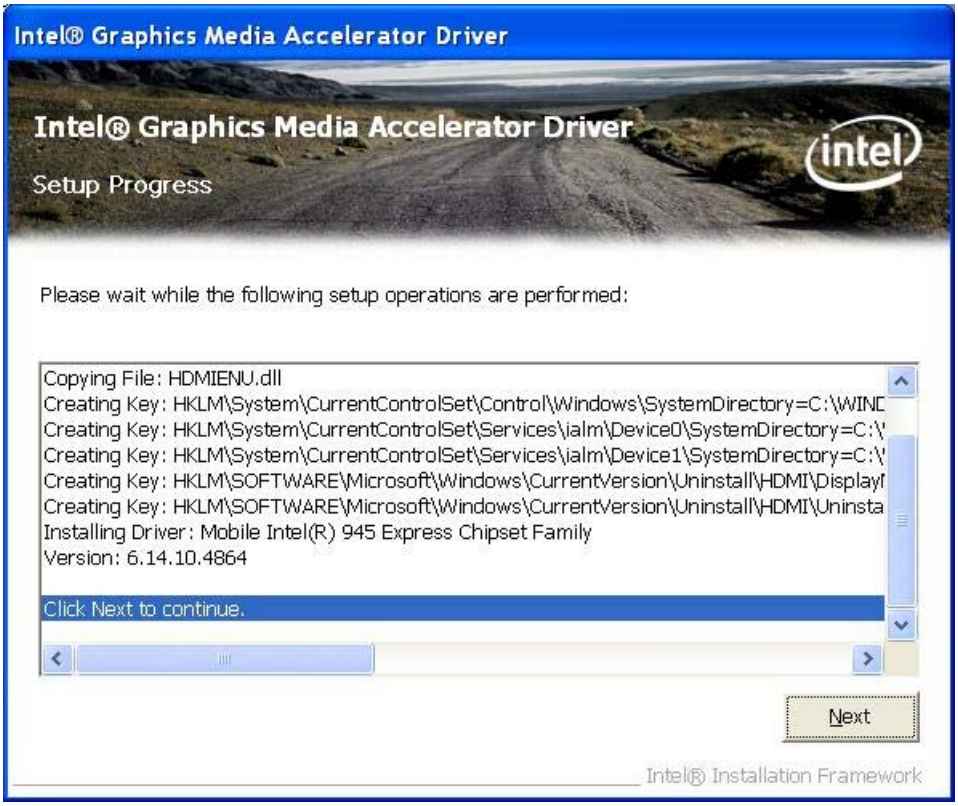
Intel® Graphics Media Accelerator Driver
Intel® Graphics Media Accelerator Driver
License Agreement
You must accept all of the terms of the license agreement in order to continue the setup program. Do you accept the terms?
INTEL SOFTWARE LICENSE AGREEMENT (OEM / IHV / ISV Distribution & Single User)
IMPORTANT - READ BEFORE COPYING, INSTALLING OR USING.
Do not use or load this software and any associated materials (collectively, the "Software") until you have carefully read the following terms and conditions. By loading or using the Software, you agree to the terms of this Agreement. If you do not wish to so agree, do not install or use the Software.
Please Also Note:
* If you are an Original Equipment Manufacturer (OEM), Independent Hardware Vendor (IHV), or Independent Software Vendor (ISV), this complete LICENSE AGREEMENT applies;
< Back
Yes
No
Intel® Installation Framework

Click “Next”

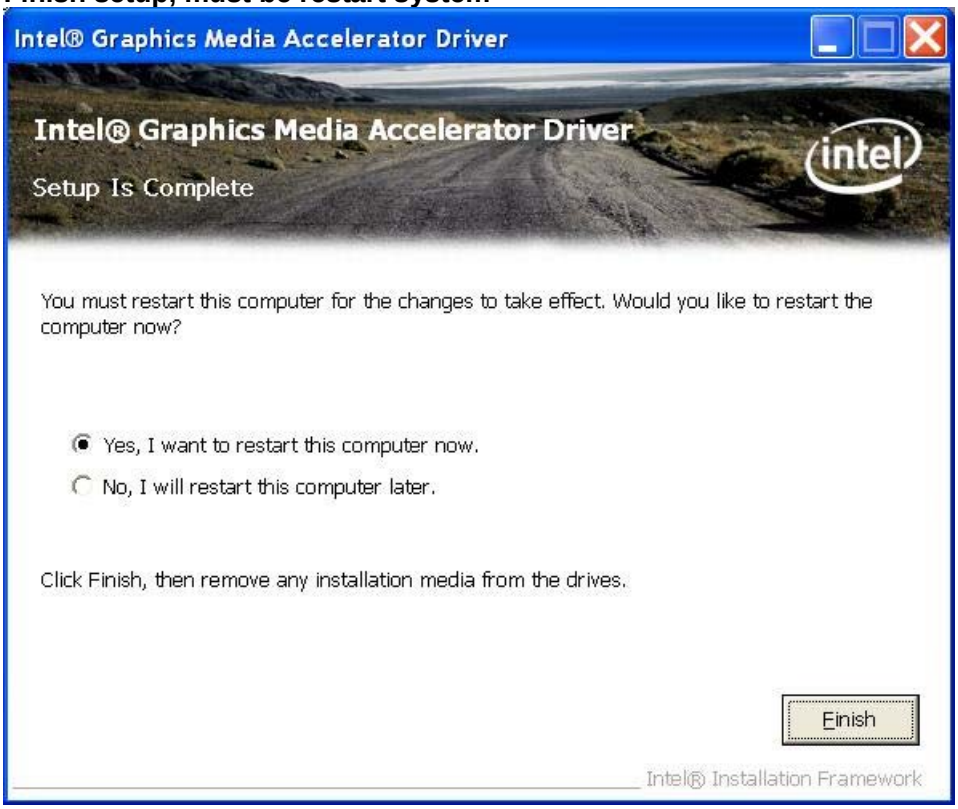


Load driver to system, wait for few minutes

Click “Next”

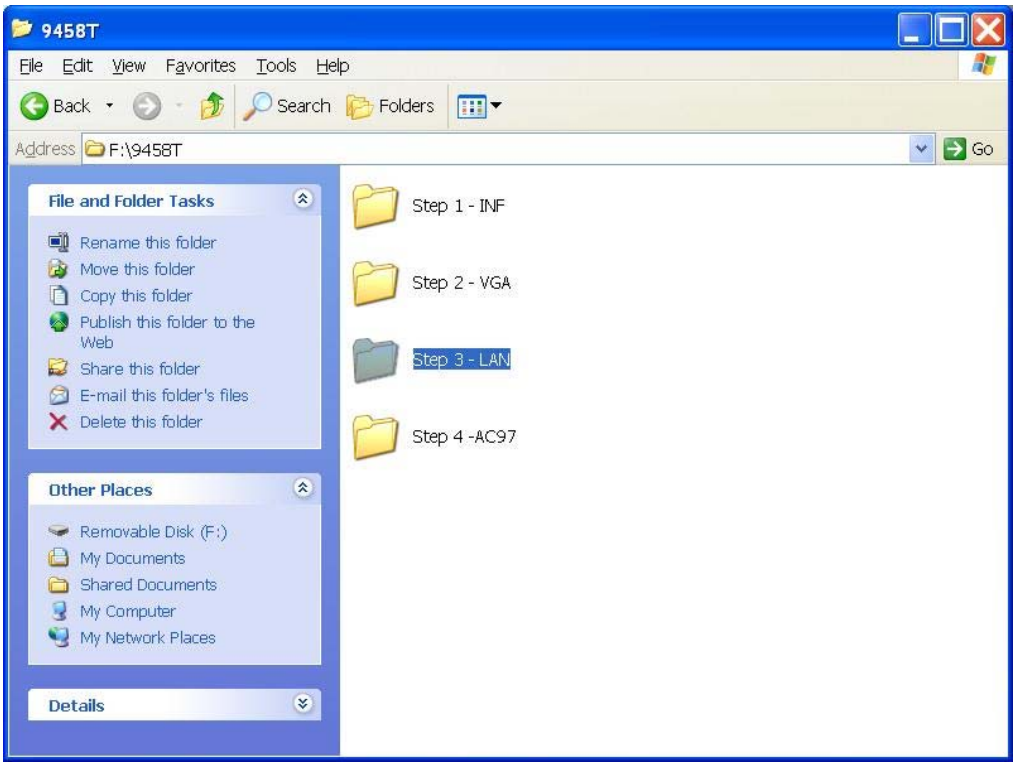


Finish setup, must be restart system

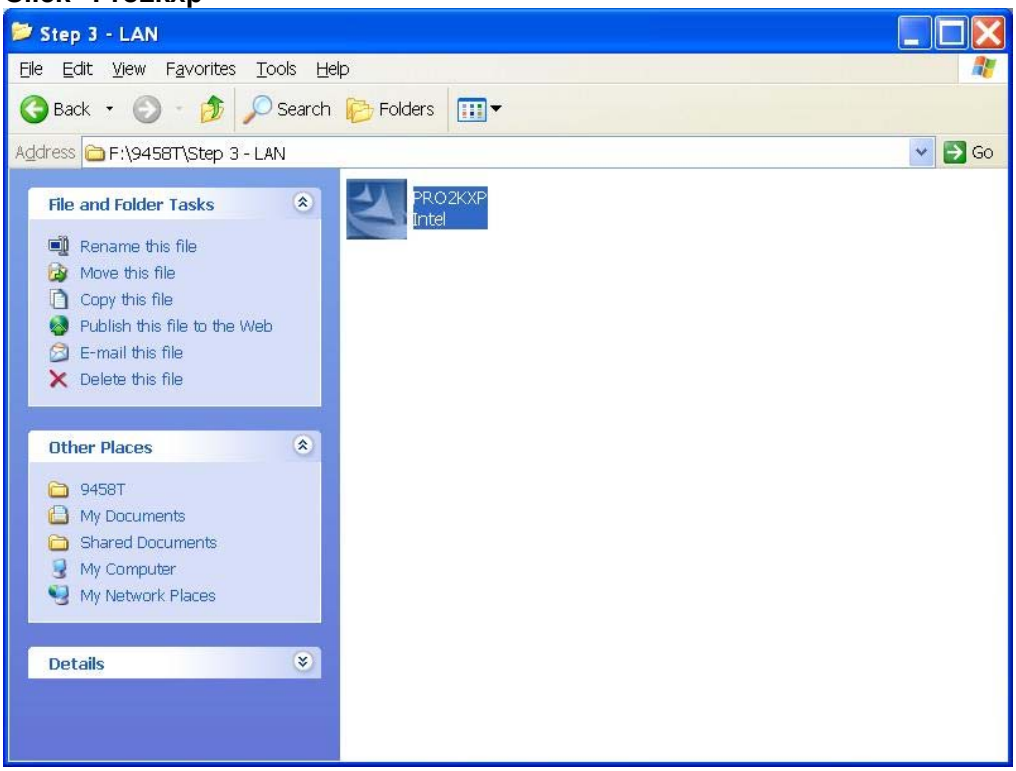

Intel® Graphics Media Accelerator Driver
Intel® Graphics Media Accelerator Driver
Setup Is Complete
You must restart this computer for the changes to take effect. Would you like to restart the computer now?
Yes, I want to restart this computer now.
No, I will restart this computer later.
Click Finish, then remove any installation media from the drives.
Finish
Intel® Installation Framework

4.2.3 Step 3 - Install LAN Driver

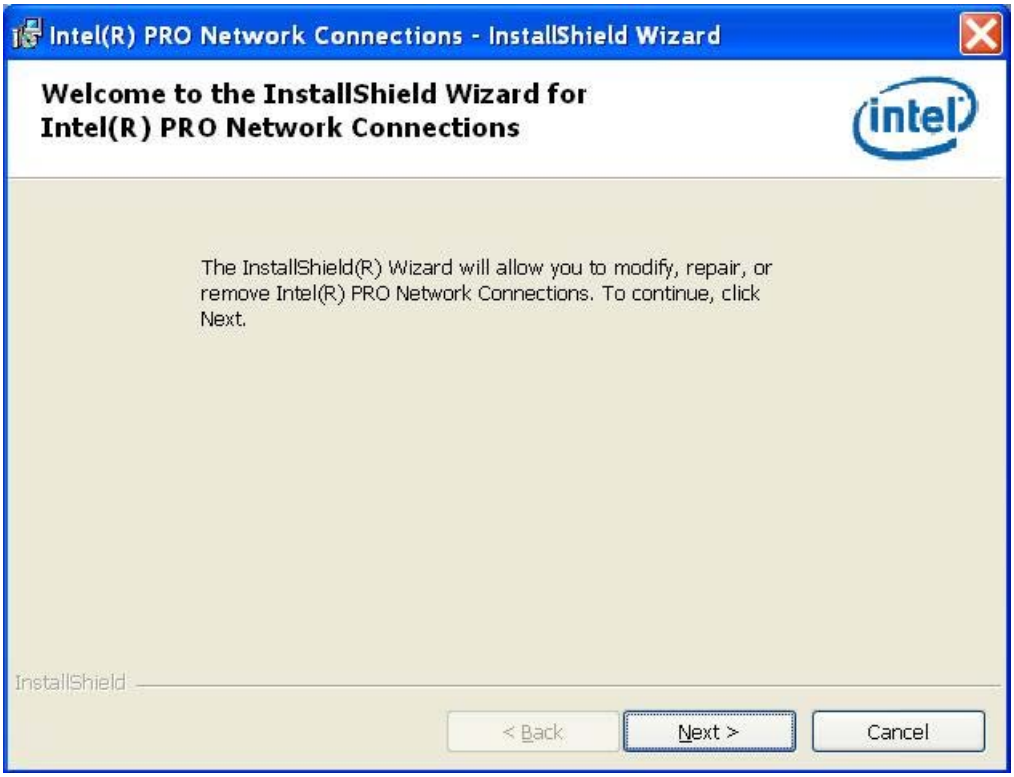
Select “LAN” driver



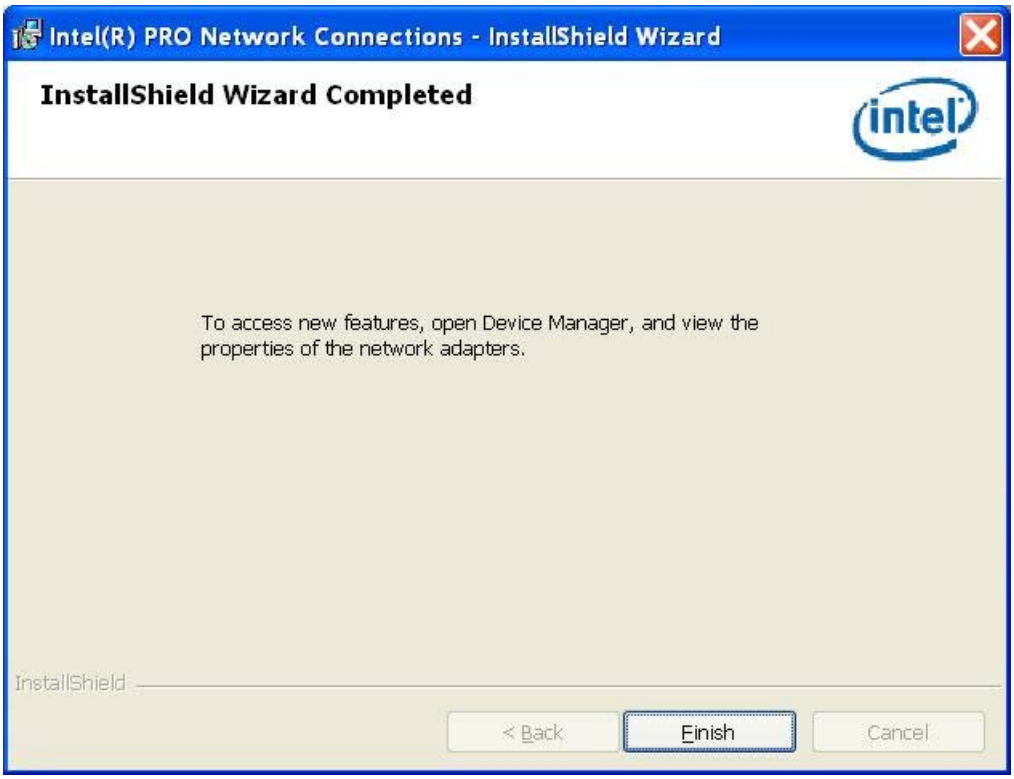
Click “Pro2kxp”



Click “Next”

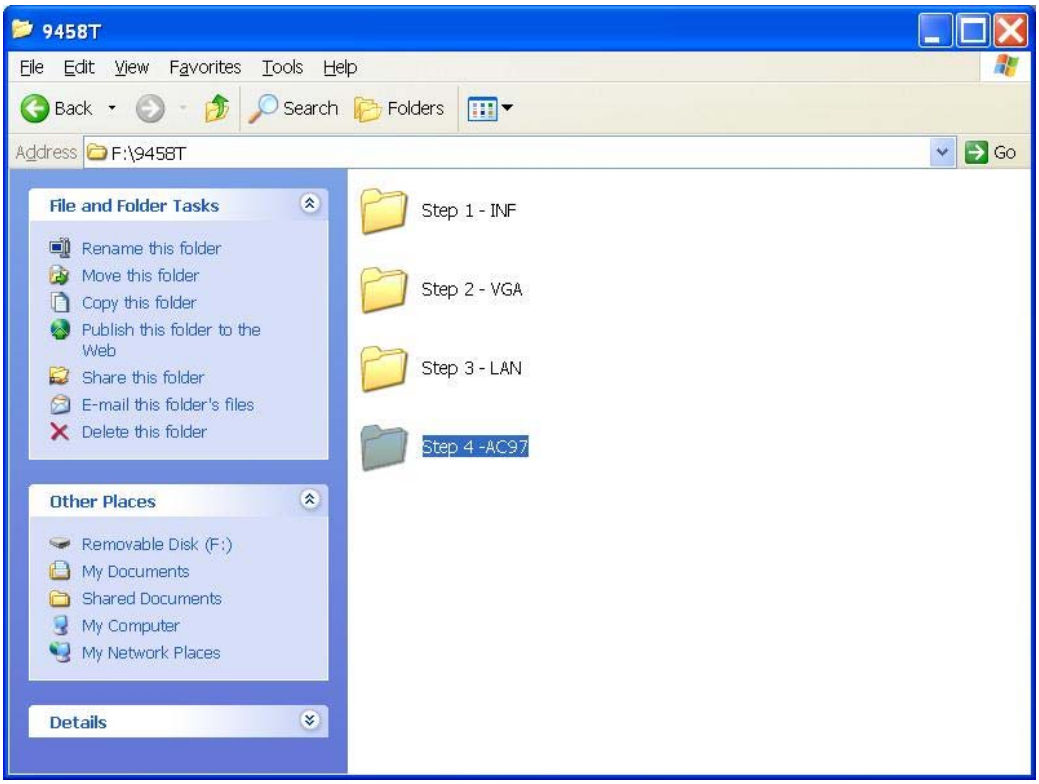

Intel(R) PRO Network Connections - InstallShield Wizard
Welcome to the InstallShield Wizard for Intel(R) PRO Network Connections
The InstallShield(R) Wizard will allow you to modify, repair, or remove Intel(R) PRO Network Connections. To continue, click Next.
InstallShield
< Back
Next >
Cancel

Click “Finish”

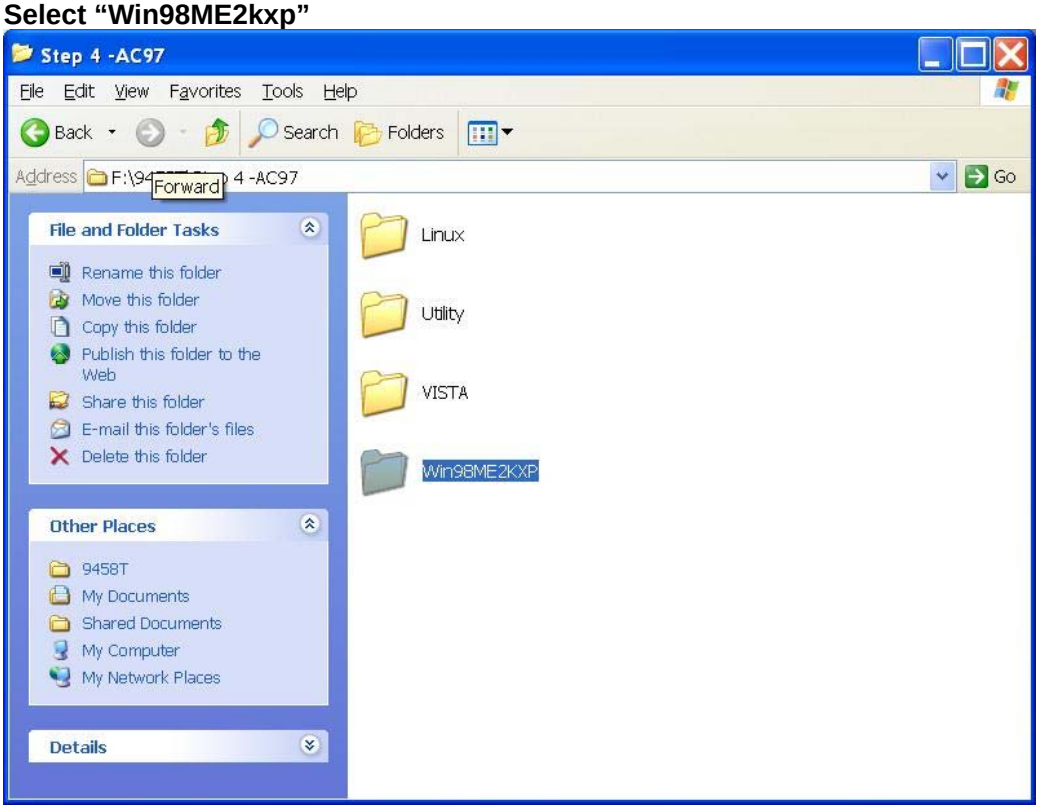

Intel(R) PRO Network Connections - InstallShield Wizard
InstallShield Wizard Completed
To access new features, open Device Manager, and view the properties of the network adapters.
InstallShield
< Back
Finish
Cancel

4.2.4 Step 4 - Install Audio Driver

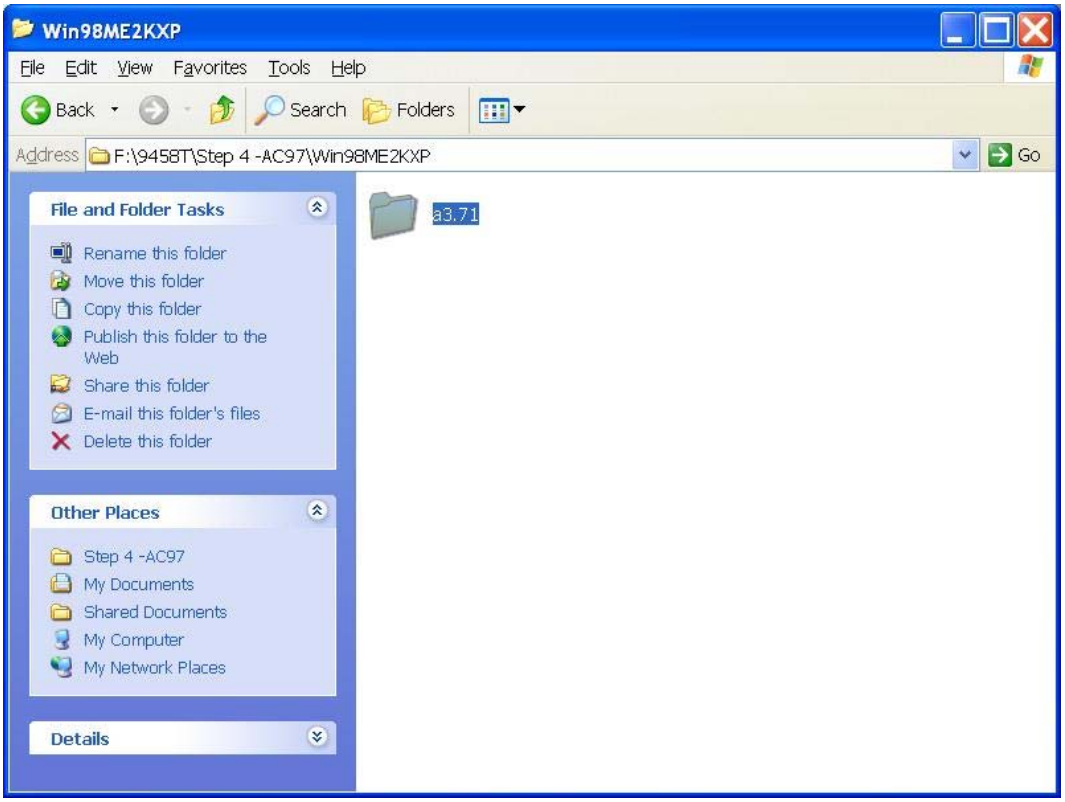
Select “AC97” Driver



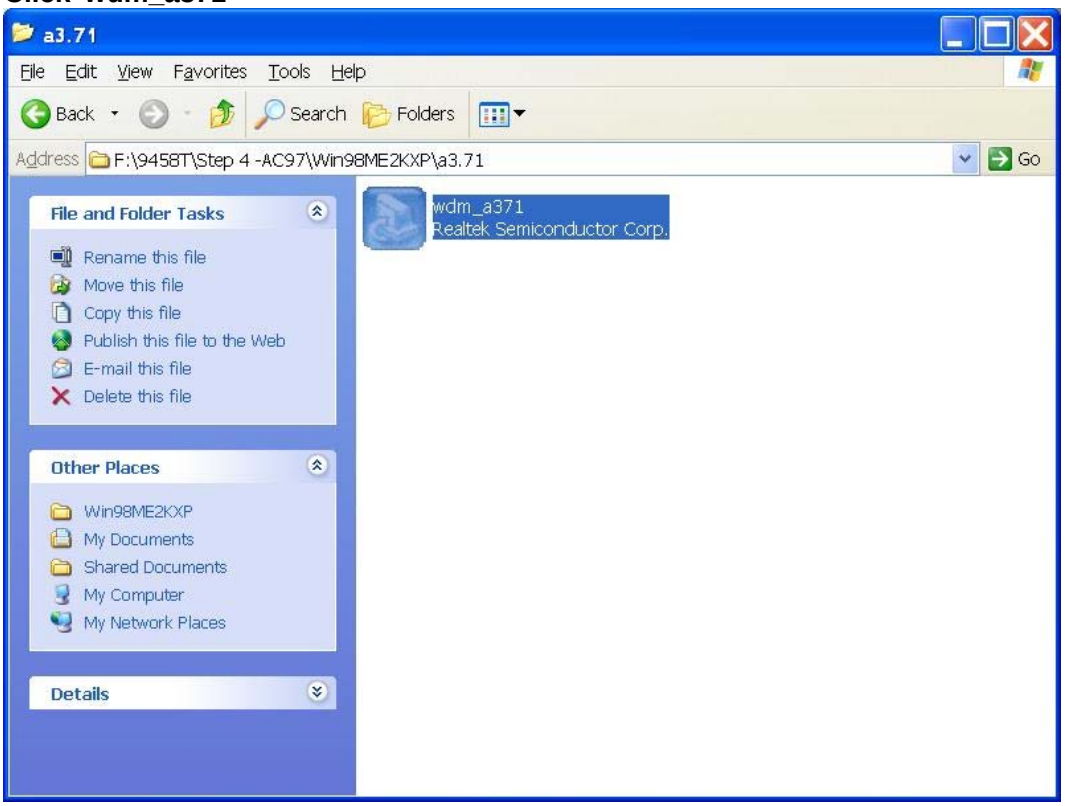
Select “Win98ME2kxp”



Click “a3.71”



Click”wdm_a371”



Select “Continue Anyway”

Hardware Installation
The software you are installing for this hardware:
Realtek AC'97 Audio
has not passed Windows Logo testing to verify its compatibility with Windows XP. (Tell me why this testing is important.)
Continuing your installation of this software may impair or destabilize the correct operation of your system either immediately or in the future. Microsoft strongly recommends that you stop this installation now and contact the hardware vendor for software that has passed Windows Logo testing.
Continue Anyway
STOP Installation

Finish setup, must be restart system

Realtek AC'97 Audio Setup (5.06)
Maintenance Complete
InstallShield Wizard has finished performing maintenance operations on Realtek AC'97 Audio.
Yes, I want to restart my computer now.
No, I will restart my computer later.
Remove any disks from their drives, and then click Finish to complete setup.
< Back
Finish
Cancel

4.2.5 Step 5 - Install Touch Driver

On the CD-ROM in this package, insert the installation CD into the CD ROM device. As the picture shows install Touch Screen drivers as follows:

Resistive Touch Screen
It generally uses a display overlay composed of layers, each with a conductive coating on the interior surface. Special separator “dots” are distributed evenly across the active area and separate the conductive interior layers. The pressure from using either a mechanical stylus or finger produces an internal electrical contact at the “action point” which supplies the controller with vertical and horizontal analog voltages for data input. The resistive touch screens are anti-glare to reduce reflective shine intensity, which will slightly diffuse the light output throughout the screen. Resistive technology activation can be initiated by; a gloved hand, fingernail, mechanical stylus or an ungloved finger.

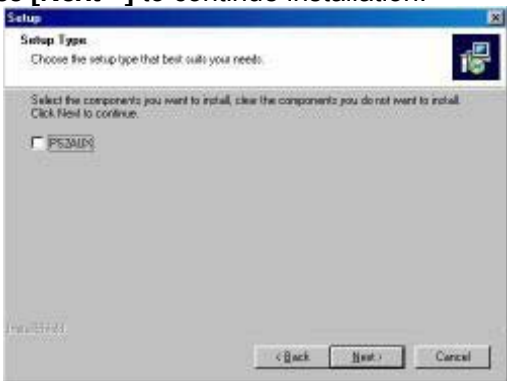
Resistive Touch - Brief Specifications

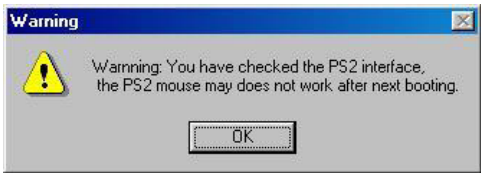
Subject	Details
Input Method	Finger & Stylus Finger & Stylus Touch Stylus Touch Stylus Gloved Hand
Touch Activation Force	0.10 - 0.80N (10 - 80g)
Insulation Resistance	≧20MΩ/25V(DC)
Light Transmission	> 80%
Operating Temperature	-10°C ~ +70°C
Storage Temperature	-40°C ~ +80°C
Humidity (Operating)	20%RH ~ 80%RH
Surface Hardness	≧3H
Durability	35,000,000 times

This touch panel controller provides the optimistic performance of analog resistive touch panels for 4 wire, 5 wire and 8 wire models. It communicates with PC system directly through RS232, PS/2 or USB connector. Users can see how superior the design is in sensitivity, accuracy and friendly operation. The touch panel driver emulates mouse left and right button function and supports operation systems including Microsoft Windows 95 / 98 / ME /NT4 / 2000 / XP / XP Tablet PC Edition, Windows CE 2.12 / 3.0 / .NET, Linux, iMac and DOS.

Installing Software
TouchKit is software, which contains drivers of the touch panel controllers for the specified communication connectors, RS232, PS/2 and USB, and the other two utilities:
· **Touch Tray support**
This is utility for emulating the right and left button of mouse through controlling touch panel. Users can toggle between right or left mouse buttons by this utility.
· **Configuration support**
The calibration and draw test of touch panel are done by this utility. Besides, users can add or remove for new RS-232, PS/2 or USB touch panel devices.
Follow these steps to install **TouchKit.**
4.2.5.1. Put the **TouchKit** CD to CD-ROM.
4.2.5.2. Change directory to **Win9X_ME**
4.2.5.3. Double click the **Setup.exe**, then windows starts to run the installation program. Notice that do not plug the USB controller on the system before the installation has been finished.
4.2.5.4. Just click **[Next >]** button to continue installation.

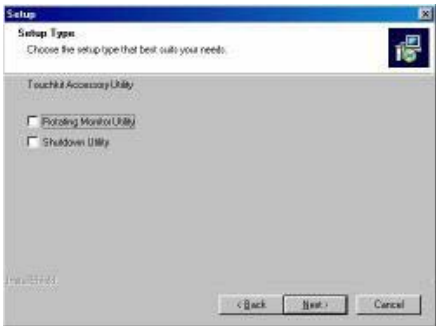
4.2.5.5. Then check the check box if PS/2 touch controller is to be installed. The default is unchecked. Then Press **[Next >]** to continue installation.


Setup
Setup Type
Choose the setup type that best suits your needs.
Select the components you want to install, clear the components you do not want to install. Click Next to continue.
PS2AUX
< Back
Next >
Cancel



System will give you a warning, if users check the PS2AUX check box,

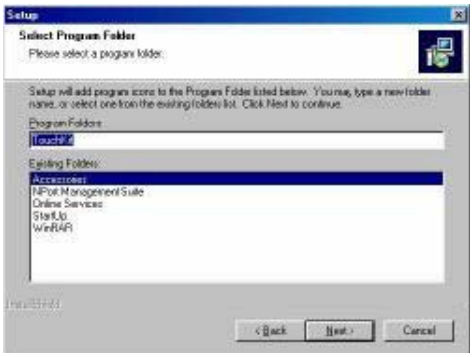
4.2.5.6. Choose the setup type that best suits your needs. There are two **TouchKit** accessory utilities for choosing, **Rotation Monitor Utility** and **Shutdown Utility**. Users can install the utility they want by checking the box. Then Press **[Next >]** to continue installation.



4.2.5.7. Select the appropriate folder where set-up files will be installed. Then Press **[Next >]** to continue installation.

Setup
Choose Destination Location
Select folder where Setup will install files.
Setup will install TouchKit in the following folder.
To install to this folder, click Next. To install to a different folder, click Browse and select another folder.
Destination Folder
C:\Program Files\TouchKit
Browse...
< Back
Next >
Cancel

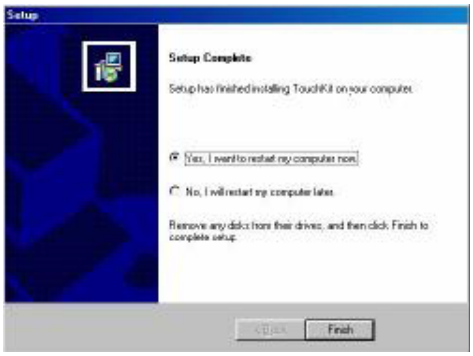
4.2.5.8. Then type in the name of program folder for **TouchKit** or press **[Next >]** to continue. There will be a default name for it.


Setup
Select Program Folder
Please select a program folder.
Setup will add program icons to the Program Folder listed below. You may type a new folder name, or select one from the existing folders list. Click Next to continue.
Program Folders:
TouchKit
Existing Folders:
Accessories
NPort Management Suite
Online Services
StartUp
WinRAR
< Back
Next >
Cancel

During driver installation, the setup program will scan COM port for RS232 **Touchkit** controller. Once the controller was scanned, the setup program will display a dialog as

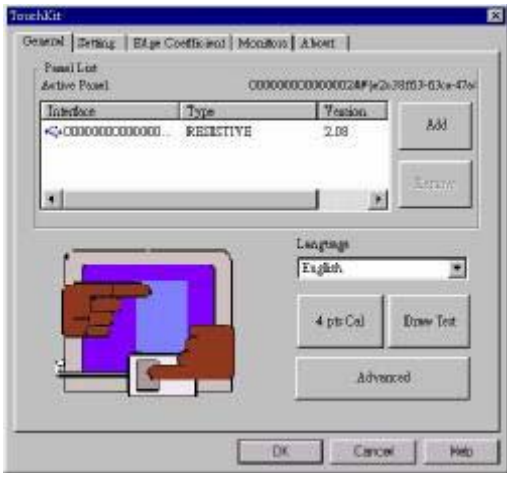
Click Yes to add the controller on the specified COM port automatically.

4.2.5.9. Windows is copying files to disk and the setup is complete. It will request re-boot computer. Press **[Yes >]** to re-boot immediately or **[No >]** to re-boot later. The installation will not be finished until system re-boot.


Setup
Setup Complete
Setup has finished installing TouchKit on your computer.
Yes, I want to restart my computer now.
No, I will restart my computer later.
Remove any disks from their drives, and then click Finish to complete setup.
Finish

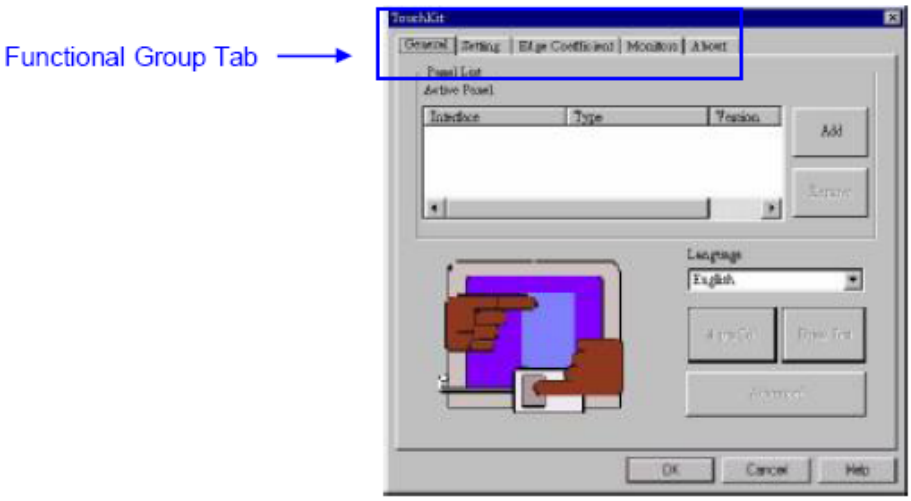
4.2.5.10. Setup is complete. After **TouchKit** installation, the USB device will be found automatically as soon as it was plugged into the computer. Then users can see the new device on the application program window. And, the program will remove the USB Device automatically as soon as it was unplugged. **(USB device is not**

supported for Windows95)

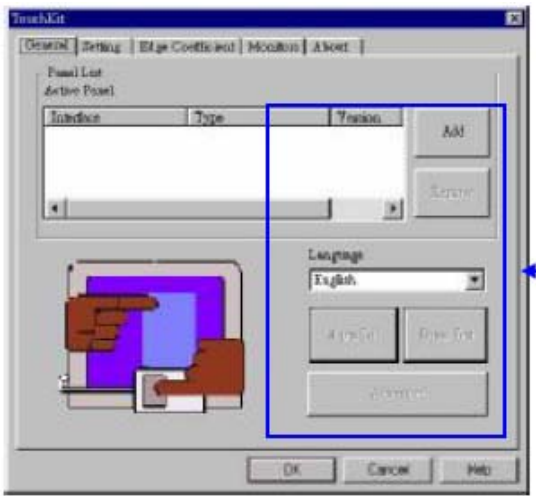


Configuration Utility and Right Button Emulator

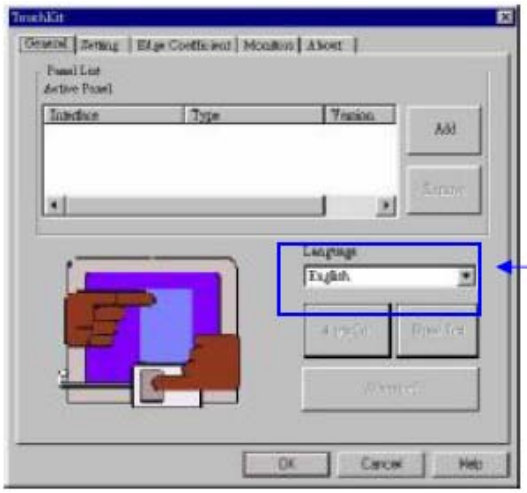
There are five property pages in **TouchKit** utility, and they are **General**, **Setting**, **Edge coefficient**, **Monitors** and **About**. Each property page contains different functions for users to do the adjustments. Therefore, users can easily manage all the **TouchKit** controllers through **TouchKit** utility.



General
General property page contains the functions of **language selection**, **devices add/ remove**, **4 points calibration**, **Draw test** and **Advanced**.



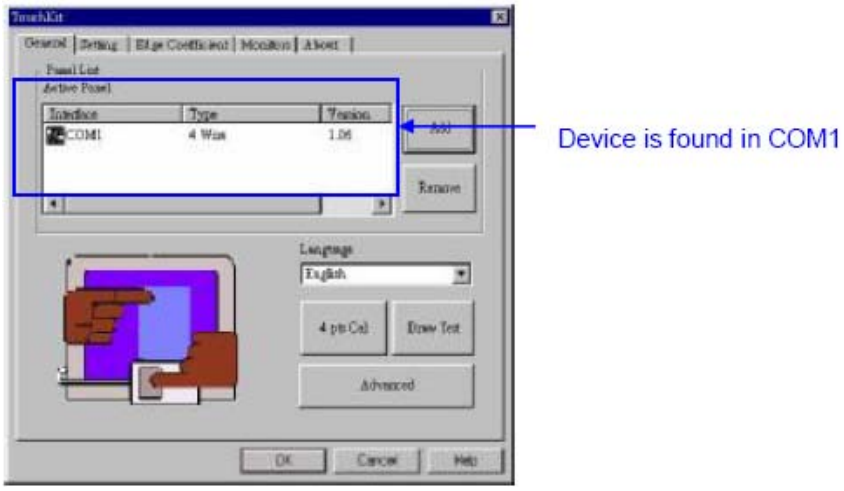
<Language>
TouchKit supports multi-language user interface. Users could select native language that is compatible to operation system support. For example, if the operation system is a traditional Chinese version, users could see the normal display words under the traditional Chinese and English mode. There are ten different languages, **English**, **Traditional Chinese**, **Simplified Chinese**, **French**, **Spanish**, **German**, **Japanese, Italian, Korean** and **Dutch** supported in this feature of **TouchKit**.



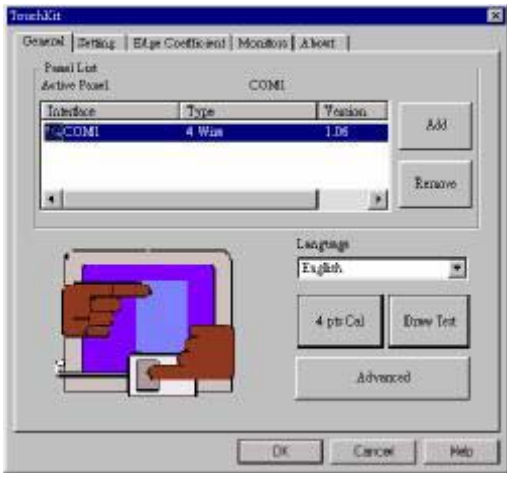
Select the compatible language first or users may not see the normal display of each button.

<Add> / <Remove>
Please check the touch panel devices (including its controller) are equipped well, then click **[Add]** button to add all of those RS-232 and PS/2 devices to the **Panel List** dialogue box.

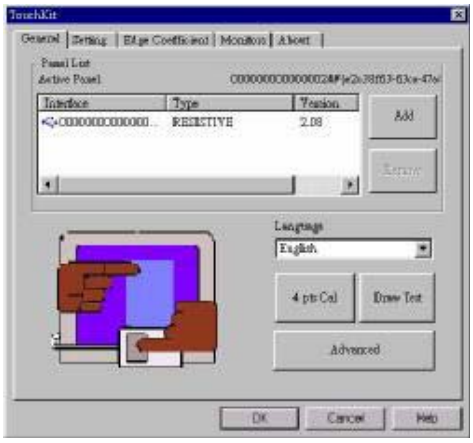
There is one devices found. Press **[Yes]** to continue.



The controller is displayed on the Panel List box. users can get the information of interface, type, firmware version and baud rate for each controller.
Select one device after added more than one device at the panel list window. The one selected will activate the panel, and remember to do the calibration before starting to use touch panel.



But, for hot-swapping USB touch controller, it will be added automatically as soon as it was plugged into the computer. Then users can see the new device on the application program window. And, the program will remove the USB touch controller automatically as soon as it was unplugged. **(USB device is not supported for Windows95)**

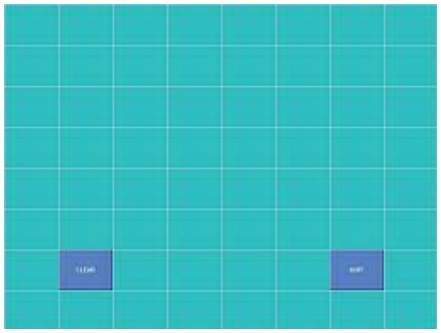


There are three buttons, **[4pts Cal] [Draw Test] [Advanced]**, at the lower section of the **General** property page.

<4pts Cal>
Correct 4 point locations on screen with the panel. Press **[4 pts Cal]**, screen displays as follows.

Touch the blinking symbol on panel until beep or stop blinking.

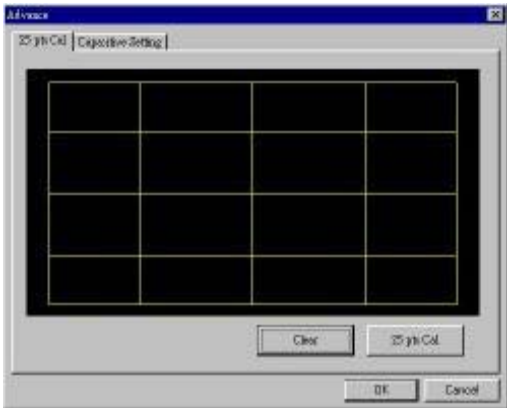
<Draw Test>
Test the drawing position related to the display screen on panel.
Click on the **[Draw Test]** button. There will be a squared blue display showing.



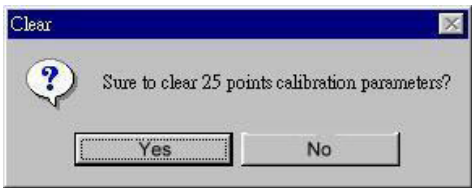
In drawing test window, users can click **[Clear]** button to clear the window. Also, users can click **[Quit]** or press mouse right button to quit from the drawing test.
In drawing test window, users can verify the panel linearity, calibration capability, and drawing line quality.

<Advanced>
Touchkit provide more accuracy 25 points calibration for touch sensor. In

addition, **Touchkit** provides controller setting for capacitive touch sensor. If the capacitive controller is selected, a capacitive setting property page appears on the advanced sheet. In general case, it does not need to do 25 points calibration other then bad linearity sensor.



Press **[Clear]** to clear the previous calibration records.



Press **[Yes]** to clear previous records.The record will become default record.

Press **[25ptCal]** to do 25 points calibration. Correct 25 point locations on screen with the panel.

Touch the blinking symbol on panel until beep or stop blinking.
After the calibration, the new record will overwrite the old one.

If the selected controller is capacitive type, an extra property page for capacitive setting adjustment shown as below:

Please select property size of capacitive screen first, and press **[Restart]**

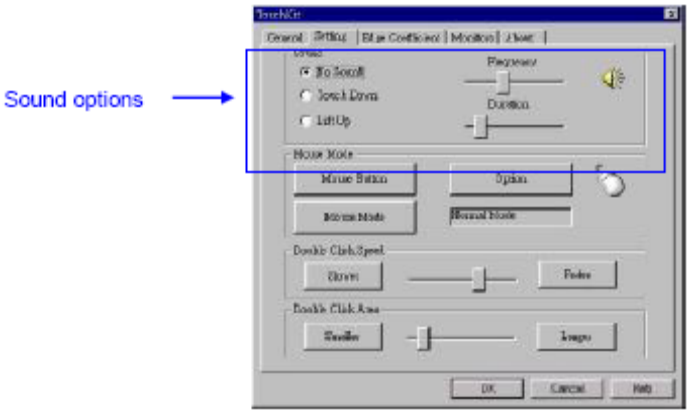
The capacitive controller will restart, and do not touch the screen before the warning message disappears

Warming: Do not adjust the sensitive and sampling time without RD help

Setting

There are three functional groups in **Setting** property page, and at the upper section of the property page is **sound option**; at the middle section is **Mouse Mode;** and at the lower section is **Double Click Adjustment**.

The **Sound** options provide users the click feedback while touching the panel. Select preferred option first.



<No Sound>

Users could choose to make no sound while using the touch panel.

<Touch Down>

The system will make a sound while touching the panel.

<Lift Up>

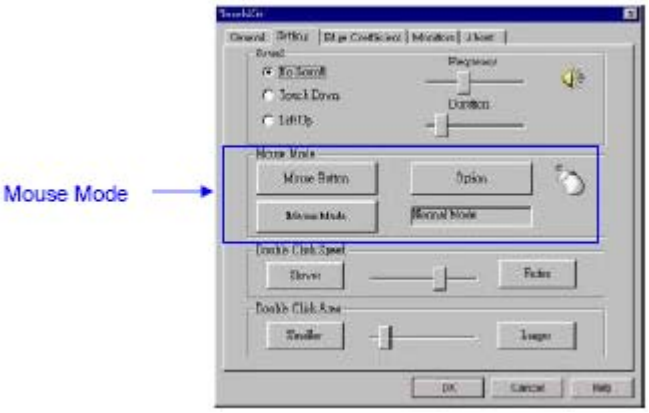
The system will not make any sound until finger leaves the touch panel.

<Frequency>

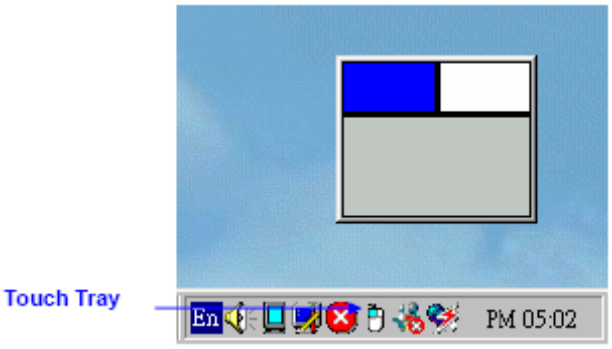
Sound frequency, drag the cursor from left to right is low to high.

<Duration>

Sound duration, drag the cursor from left to right is short to long.
The **Mouse Mode** provides users different operating options. They are as follows:



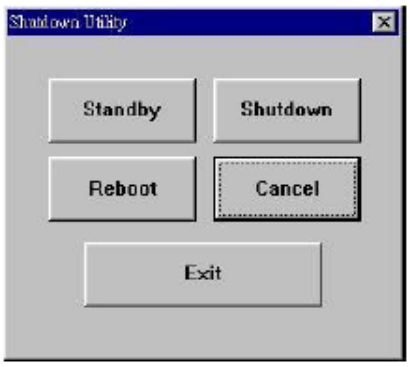
<Mouse Button>
Click it to **show / hide Touch Tray** on the right bottom corner of the desktop.
The touch panel system starts with the computer booting, and a mouse icon shows in the taskbar.
Users can choose show or hide **Touch Tray** from the mouse icon in the taskbar.
Just click the mouse icon to choose show or hide.



Change **right / left** button by clicking the upper small rectangular box of **Touch Tray**. Blue area expresses what button has been selected.

<Shutdown utility>

Click on shutdown utility in the task bar



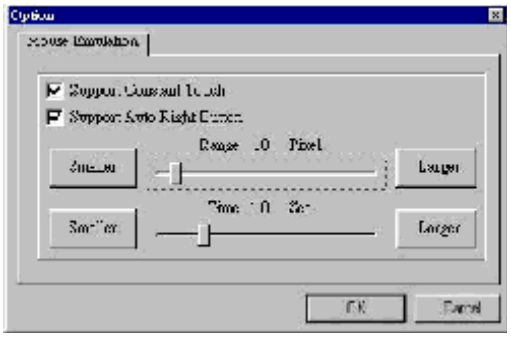
Shutdown utility dialog

There are five modes in shutdown utility for users convenience.
[Standby] to enter standby mode that saves power consumption.
[Shutdown] to turn off PC.
[Reboot] to restart PC.
[Cancel] to escape from the Shutdown utility dialog.
[Exit] to disable the Shutdown utility.

Please notice that Windows NT does not support this function.

<Mouse Mode>
There are three kinds of mouse mode users could choose,
[Normal Mode]
It provides all the mouse functions, including the dragging function.
[Click on Touch]
Click action is executed as soon as users touch the panel.
[Click on Release]
Click action will not be executed until finger leaves the panel.

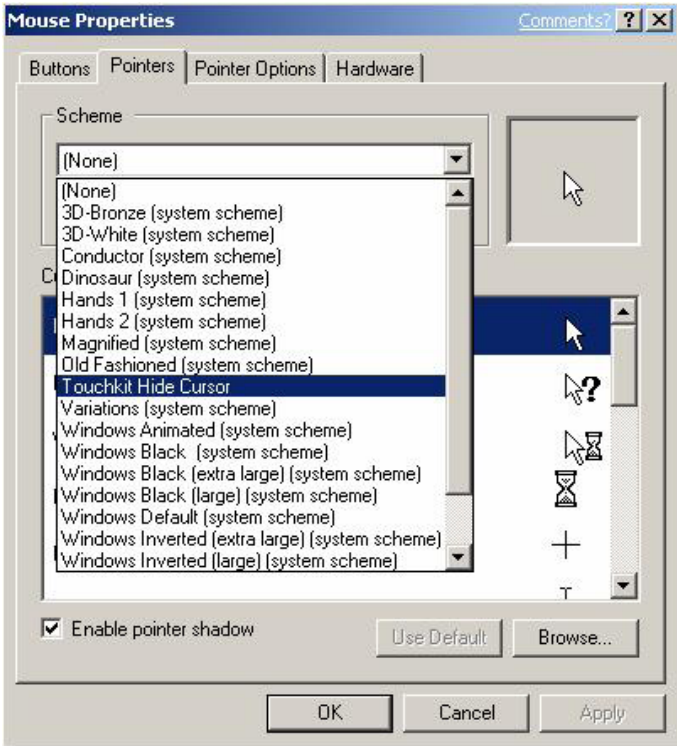
<Option>
Touchkit provides an option for advanced Mouse Emulation setting. When the **Option** button is pressed, a setting property sheet will be popped up. **Support Constant Touch** and **Support Auto Right Button** check boxes are shown in the property sheet to **enable** / **disable Constant touch** and **Auto right button** support.



[Constant Touch]
Enable **Constant Touch** to force driver to stop reporting touch point when the movement is within the range which users can adjust. Therefore, the user can see a stabilized cursor instead of a chattering cursor when users touch the same point with unwanted noise.
[Auto Right Button]
Enable **Auto Right Button** to force driver to report a **right click mouse**

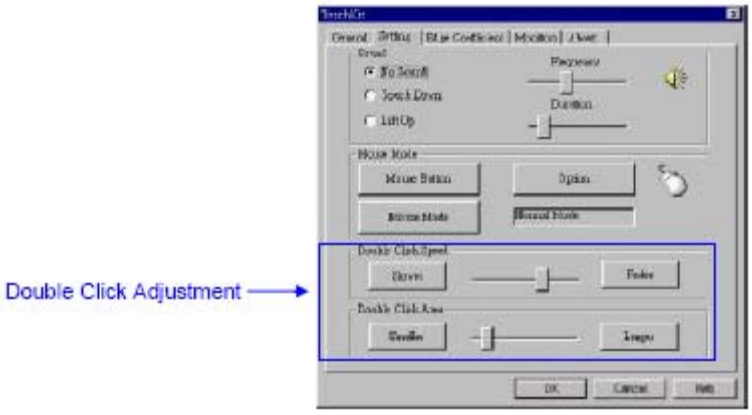
event to OS when users do a continuing touch till time out. It no longer needs to touch the **right button** in the **Touchtray** to activate a **right click**. This feature makes users to do **right click** more easily with touchscreen.

<Cursor Visibility>
Cursor visibility function provides users to hide the cursor in the display. Please go to **Start / Control Panel / Mouse / Pointers / Scheme**, and choose **TouchKit Hide Cursor**. Press **[Apply]** to make setting change, and press **[OK]** to escape the property page.



If users want to cancel the function of TouchKit Hide Cursor, do the steps again and choose the other scheme.

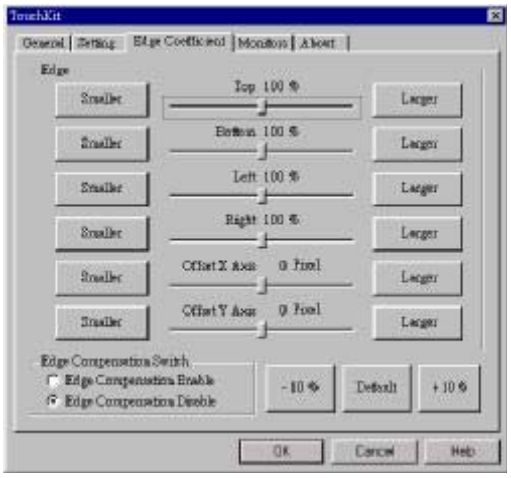
The **Double Click adjustment** provides users to set up the tolerance while double clicking. They are as follows:



<Double Click Speed>
Double Click Speed is the double click response time for Windows system. Users can adjust the proper double click for easy double click by touch panel.

<Double Click Area>
Each one touch has its own touch tolerance once someone may not fix in one point. So if users set the Double Click Area to **<Smaller>**, the panel will be very sensitive about micro-move while users want to fix on a point. If users set it to **<Larger>**, it tolerates the larger touch point movement while users want to point at a fixed position.

Edge Coefficient
Edge Coefficient property page contains the functions of **Edge Compensation for Top, Bottom, Left, Right, X Axis and Y Axis**.



In some case, if it is difficult to touch items at the edges of the touch panel, users can set adjustment to reach the edges of the screen image.

<Top>
If users set the Edge to **<Smaller>**, **TouchKit** will reduce the horizontal position of the top edge. If users set the Edge to **<Larger>**, **TouchKit** will extend the horizontal position of the top edge.

<Bottom>
If users set the Edge to **<Smaller>**, **TouchKit** will reduce the horizontal position of the bottom edge. If users set the Edge to **<Larger>**, **TouchKit** will extend the horizontal position of the bottom edge.

<Left>
If users set the Edge to **<Smaller>**, **TouchKit** will reduce the vertical position of the left edge. If users set the Edge to **<Larger>**, **TouchKit** will extend the vertical position of the left edge.

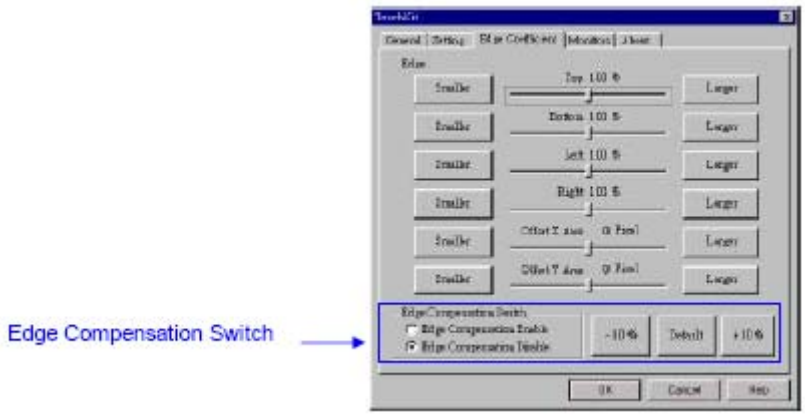
<Right>
If users set the Edge to **<Smaller>**, **TouchKit** will reduce the vertical position of the right edge. If users set the Edge to **<Larger>**, **TouchKit** will extend the vertical position of the right edge.

In some case, cursor will be behind the finger when users touch the panel. If users can not see the cursor when they touch down on the panel, users can set X Axis or Y Axis to move the cursor.

<Offset X Axis>
If users set the Offset X Axis to **<Smaller>**, cursor will be moved a pixel of X

Axis to left. If users set the Offset X Axis to **<Larger>**, cursor will be moved a pixel of X Axis to right.

<Offset Y Axis>
If users set the Offset Y Axis to **<Smaller>**, cursor will be moved a pixel of Y Axis to top. If users set the Offset Y Axis to **<Larger>**, cursor will be moved a pixel of Y Axis to bottom.



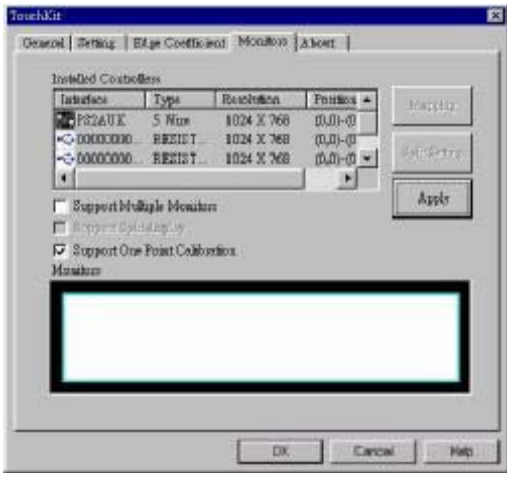
<Edge Compensation Switch>
Users can choose Edge compensation **Enable / Disable** from left bottom corner of **Touchkit** Utility.

Using **+10% and -10% button** to adjust the smaller or larger of edge. If users press **+10% button**, the top, bottom, left and right edges will extend 10% of orientation to touch screen, and cursor will be moved 10 pixel of X and Y Axis to right and top. If users press **-10% button**, the top, bottom, left and right edges will contract 10% of orientation to touch screen, and cursor will be moved 10 pixel of X and Y Axis to left and bottom.

If users want the value back to the default value, choose Default button.

Monitors
There are three functions in this property page, and they are **Multiple Monitors**, **Split Monitor** and **One point Calibration**. Such a trendy and yet innovated design provides viewing pleasures, viewing flexibility and convenience to users.

<Multiple Monitors>
To configure the mapping relationship between the monitors and the touch panels, select the monitor page as below.

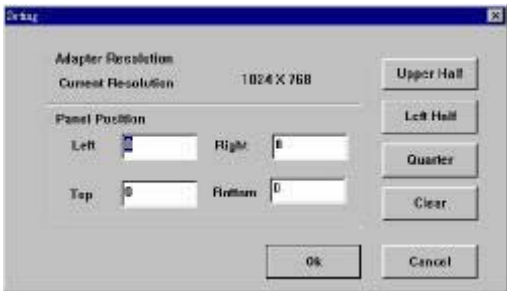


Set the check box (Use Multiple Monitors) to enable multiple monitors mapping. Uncheck this box will disable multiple-monitor configuration, and all of the touch panel controllers will be mapped to the primary monitor. The gray shadow area is the monitor mapped the selected controller/panel. The button **[Mapping]** is used to find the mapping relationships between the monitors and touch panel controllers. Press the **[Mapping]**, the software will guide users to touch the corresponding monitor to obtain the mapping relationship.

After finish monitor mapping, Press **[Apply]** to apply the mapping relation.

<Split Monitors>

To use the Split Monitor function, users need to select which controller you want to launch this function, then check the Multiple Monitors box and Split Monitor at the same time as showing as the follow picture. Press the **[Split Setting]** button to set up the activate area.



It shows the current resolution of display and users can set up the activate area by inputting the value by yourself or use the default button **[Upper Half]**, **[Left Half]** or **[Quarter]**. The default value of panel resolution should be full screen as Left: **0** , Right: **0**, Top: **0** and Bottom: **0**.

<One Point Calibration>

TouchKit utility provides a fast tool to identify the touchscreen orientation when

the monitor display was rotated by 90 degrees. Enable this **One Point Calibration** feature, **Touchtray** will pops up this **One Point Calibration** tool for users to identify and correct the touchscreen / monitor orientation whenever the monitors was rotated by 90 degrees. Disable this feature, **Touchtray** does not pop up this **One Point Calibration** tool. Then, the user has to do four points calibration to correct the orientation whenever the monitor was rotated.

About
Information about **TouchKit**.

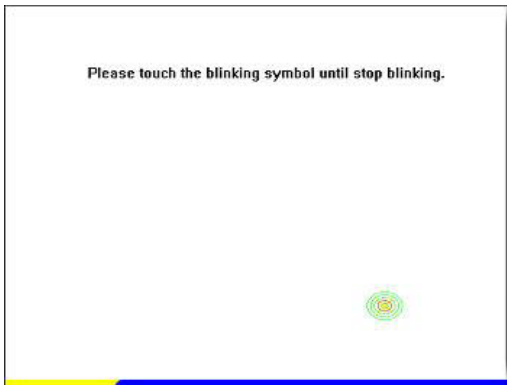
MONITOR ROTATION SETTING

TouchKit driver package for Windows 98/ME/2000/XP provides two easiest ways to rotate the touch panel while the display is rotated.

- Rotating display by way of nVidia or ATI driver
- Rotating display by way of Pivot.

◎ **Rotating display by way of nVidia or ATI driver**

1. After activating the rotation of nVidia or ATI driver, there will be one blinking symbol show as the following picture. Touch near the blinking symbol until stop blinking, and the touch panel will rotate itself.



One touch blinking symbol adjustment

2. However, 180 degree rotation of touch panel can not be done in one step, users need to rotate 90 degree twice.

◎ **Rotating display by way of Pivot**
There are two ways to rotate the display by way of Pivot.
- Rotating display by way of Pivot hotkey or function menu

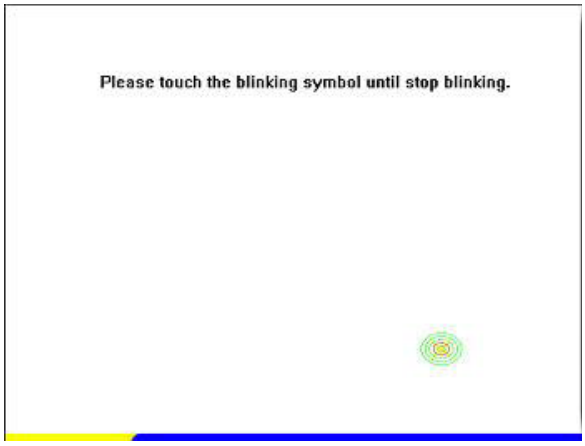
● Rotating display by way of RotTray icon provided by **TouchKit**.

< Rotating display by way of Pivot hotkey or function menu >

1. To rotate the display, please install Pivot pro 6.05 first. Then reboot PC to activatePivot.

2. There will be a pivot icon in the task bar. Users can click on it, and users can choose four angles: 0 degree, 90 degree, 180 degree, 270 degree to rotate the display.

3. After choosing the angle users want to rotate, there will be one blinking symbol showing as the following picture. Touch this blinking symbol until stop blinking, and the touch panel will rotate itself.



One touch blinking symbol adjustment

4. However 180 degree rotation of touch panel can not be done in one step, users need to rotate 90 degree twice.

< Rotating display by way of RotTray icon provided by TouchKit>

1. To rotate the display, please install Pivot pro 6.05 first. Then reboot PC to activate Pivot.

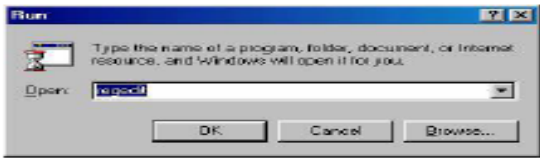
2. Users will see **RotTray** icon in the task bar.

RotTray icon

3. Clicking on **RotTray**, it will call Pivot to rotate the display and touch panel 90 degree at the same time. Clicking it again, it will rotate another 90 degree to 180 degree. Every click on **RotTray**, display will rotate clockwise. Recalibration and one symbol adjustment won't be necessary anymore.

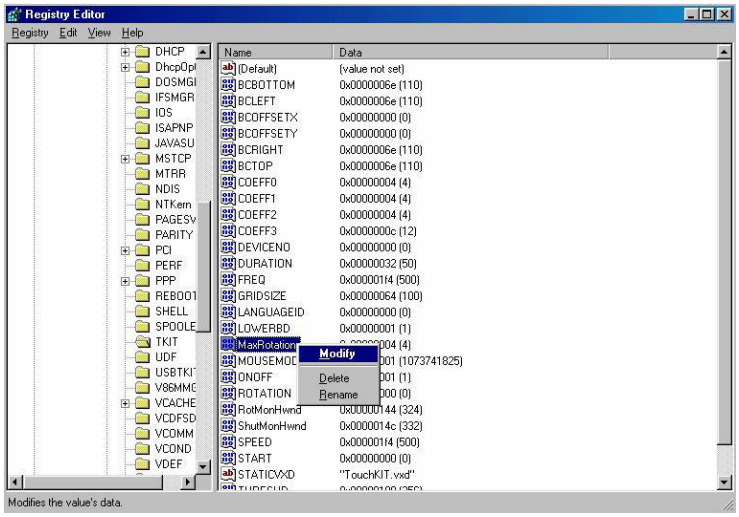
4. However this version of **RotTray** is design for Pivot pro 6.05. If users want to use older version of Pivot, like Pivot 5.1, users need to amend the value of windows registry. The next step is an example for setting Pivot 5.1 on Win98.

5. Go to **Start / Run**, and execute regedit.



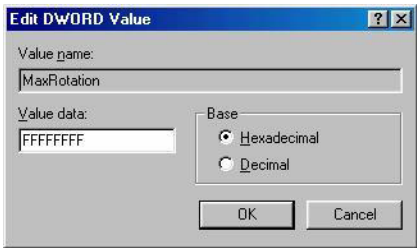
Press **[OK]** to execute

6. **For Windows 95/98/ME** OS, The Registry Editor will show as the follow picture. Then go to HKEY_LOCAL_MACHINE\System\CurrentControlSet\Services\VxD\TKIT. Right click on the **MaxRotation**, and choose Modify.



Right click on MaxRotation to Modify Value data

7. Choosing the Hexadecimal Base, and replace the value data “4”(default) with “FFFFFFFF”.



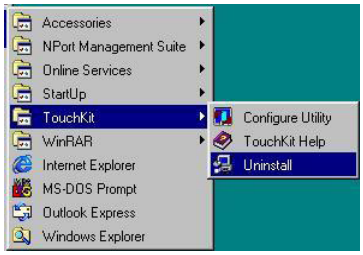
Pressing **[OK]** to confirm.

8. Here bellow are the value data for different version of Pivot:

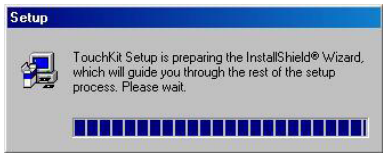
Version of Pivot	Available Angle	Value Data
Pivot pro 6.05	0, 90, 180, 270	4 (default)
Pivot 5.1	0, -90	FFFFFFFF
Other Version	0, 90	2

Follow these steps to uninstall **TouchKit.**

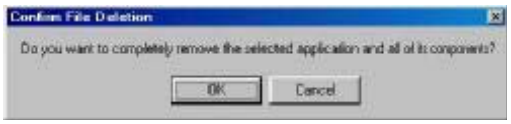
1. Go to **Start / Programs / TouchKit / Uninstall**, and execute it.



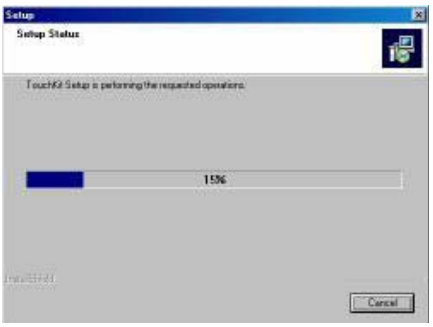
2. TouchKit setup dialog appears, and prepares to uninstall.


Setup
TouchKit Setup is preparing the InstallShield® Wizard, which will guide you through the rest of the setup process. Please wait.

3. Confirm dialog, press **[OK]** to start un-installation; **[Cancel]** to cancel uninstallation.

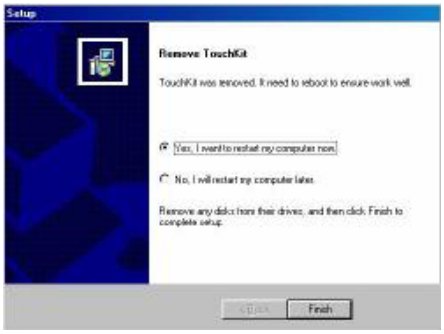


4. Start to uninstall **TouchKit**.

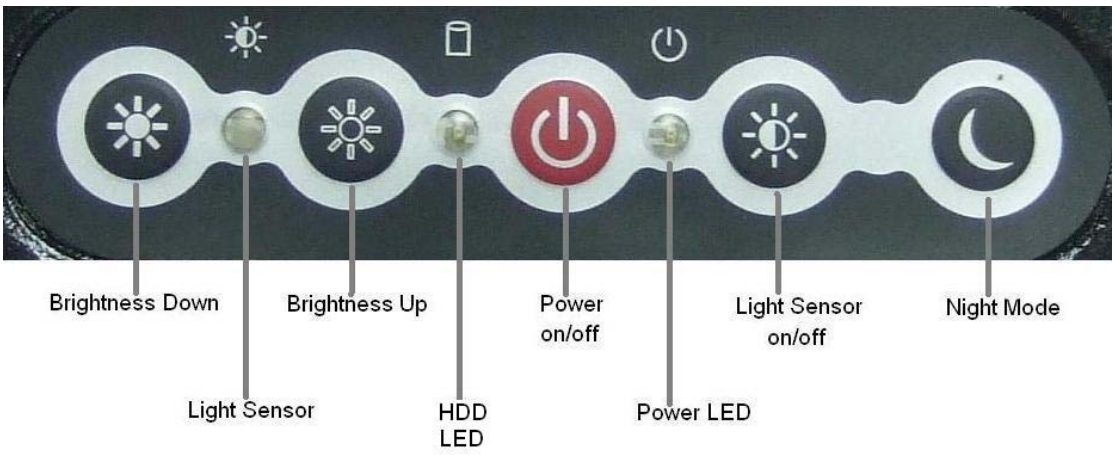


If users do not want to uninstall **TouchKit** at this moment, press **[Cancel]** to terminate the uninstall process.

5. TouchKit will not be removed until system re-boot. Press **[Yes]** to re-boot immediately or **[No]** to re-boot later.



5. DISPLAY PANEL PC OPERATION BUTTONS



5.1 On Screen Display Introduction

Sunlight Readable display panel PC can be controlled using the On Screen Display (OSD) on the front bezel of the unit. The manual enables you to change the way in which your display is set up brightness using the manual buttons.

Power on/off button

Power on: To press the POWER button for start PC system.
Power off: To long press 4/second the POWER button for shut down PC system.

Power LED button

LED on is for the start PC system mode.
LED off is for the shutdown PC system mode.

Light Sensor on/off button

Light Sensor on: To press the button for enable light sensor function.
*** If enable light sensor function can not to use that manual brightness up/down function.
Light Sensor off: To press the button for disable light sensor function.
*** If disable light sensor function can to use that manual brightness up/down function.

Night Mode button

Press the button to activate night mode and dim the display.
Press again button to return to normal mode.

HDD LED button

The HDD LED is for the PC system access status light.

Light Sensor

The light sensor can be detection light to increase display brightness.

Brightness Up

Adjust the display backlight brightness.
Press the button to increase value as appropriate.

Brightness Down

Adjust the display backlight brightness.
Press the button to decrease value as appropriate.

6. AWARD BIOS SETUP

BIOS Setup

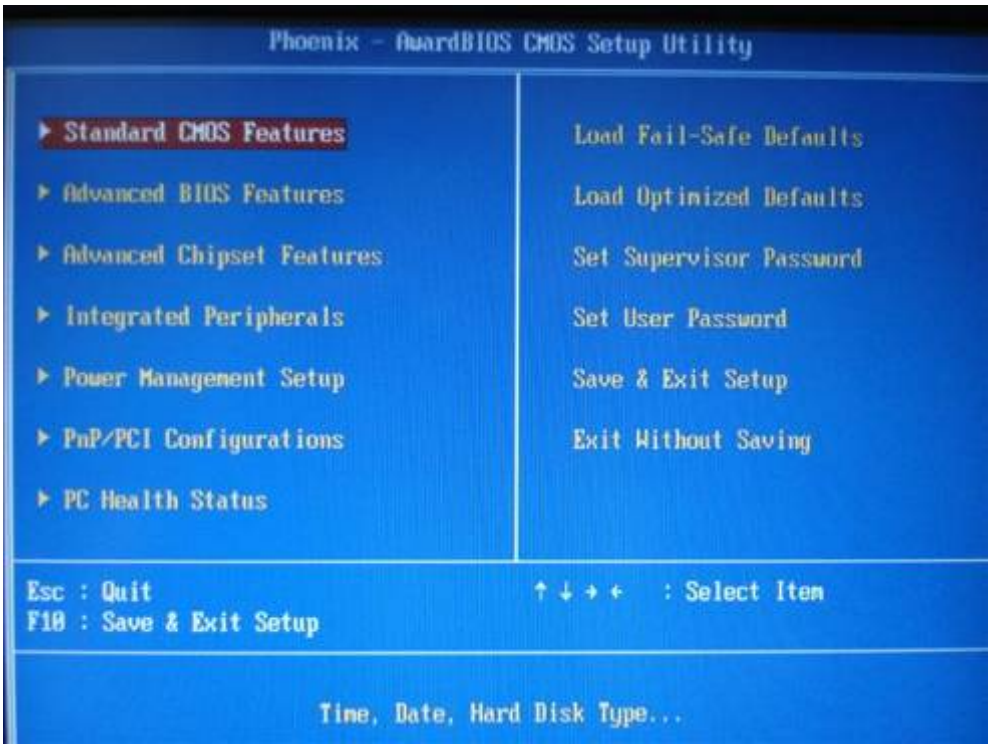
The BIOS setup, also called CMOS setup, is a crucial part of the proper setting up of Navpixel™. The BIOS (Basic Input Output System) tells the operating system the characteristics of the main basic components of Navpixel™. Because of this, an incorrectly set up BIOS can result in some devices not being recognized by the operating system.

Getting into the Award BIOS

Cold boot Navpixel™ and when you see the first screen showing in monitor, press the Delete key repeatedly till you get a blue screen titled.
When you successfully get into the BIOS setup, you will be presented with the following menu.

6.1 Setup 1: The Main BIOS Menu

The sections that follow provide guidelines on how to set up the various settings in each section of the BIOS. We have concentrated only on those settings that may need changing, if a setting does not appear in this document, leave it as you found it.
Press Enter on a main menu option to go into that section.
To return to the Main Menu from within a section, press Escape.



Screen 1

6.2 Setup 2: Standard CMOS Features

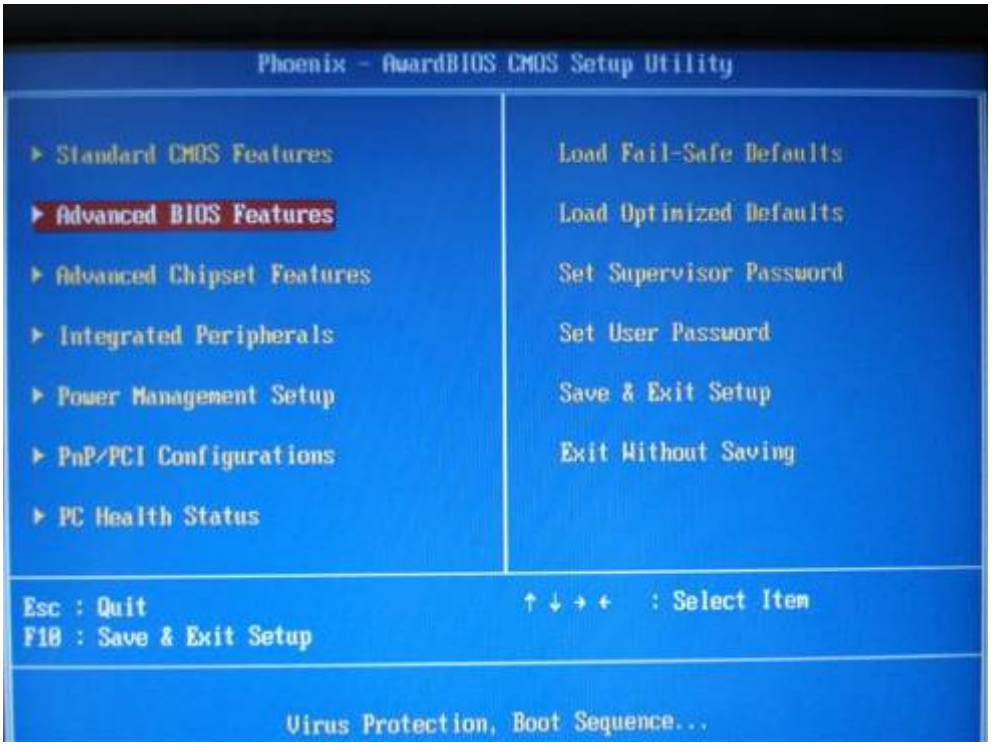
Here you can setup the basic BIOS features such as date and time. Use the arrow keys to move around and press enter to select the required option. You can specify what IDE or SATA devices you have such as Hard drive, CF device etc. The easiest way to setup the devices is by leaving it set to auto. This allows the BIOS to detect the devices automatically so you don't have to do it manually. At the bottom, it also displays the total memory in your system. Verify that your hard disk or CF device have been correctly detected in the shaded fields.

Phoenix - AwardBIOS CMOS Setup Utility
Standard CMOS Features
Date (mm:dd:yy) Mon, Jan 19 2009
Time (hh:mm:ss) 18 : 10 : 48
IDE Channel 0 Master [TRANSCEND]
IDE Channel 0 Slave [None]
SATA Port1 Device [None]
SATA Port2 Device [None]
Video [EGA/VGA]
Halt On [All , But Keyboard]
Base Memory 639K
Extended Memory 1038336K
Total Memory 1039360K
Item Help
Menu Level ▸
Change the day, month, year and century

Screen 2

6.3 Setup 3: Advanced BIOS Features

As you can see from screen 3, there are numerous advance settings which you can select if required. For most cases leaving the default setting should be adequate.



Screen 3

As you can see from the screen 4, the first and second boot device is set to Hard Disk. This ensures that the hard disk is read first when the system boots, and therefore can boot from boot disk. The third is set to CD ROM.

Phoenix - AwardBIOS CMOS Setup Utility
Advanced BIOS Features
Hard Disk Boot Priority [Press Enter]
CPU L3 Cache [Enabled]
Quick Power On Self Test [Enabled]
First Boot Device [Hard Disk]
Second Boot Device [USB-CDROM]
Third Boot Device [CDROM]
Boot Other Device [Enabled]
Boot Up NumLock Status [On]
Gate A20 Option [Fast]
Typematic Rate Setting [Disabled]
x Typematic Rate (Chars/Sec) 6
x Typematic Delay (Msec) 250
Security Option [Setup]
APIC Mode Enabled
MPS Version Control For OS[1.4]
OS Select For DRAM > 64MB [Non-OS2]
Full Screen LOGO Show [Enabled]
Small Logo(EPA) Show [Enabled]
Item Help
Menu Level ▸
Select Hard Disk Boot Device Priority
↑↓→←:Move Enter:Select +/-/PU/PD:Value F10:Save ESC:Exit F1:General Help

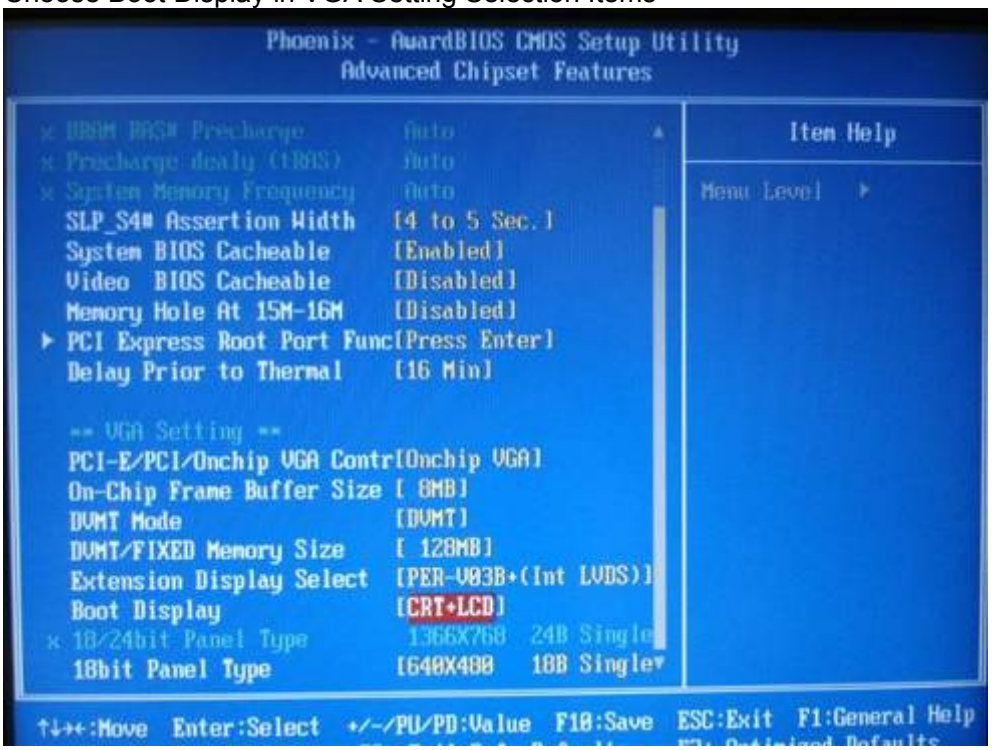
Screen 4

6.4 Setup 4: Advanced Chipset Features

Here you can setup the contents of the chipset buffers. It is closely related to the hardware and is therefore recommended that you leave the default setting unless you know what you are doing. Having an incorrect setting can make your system unstable.

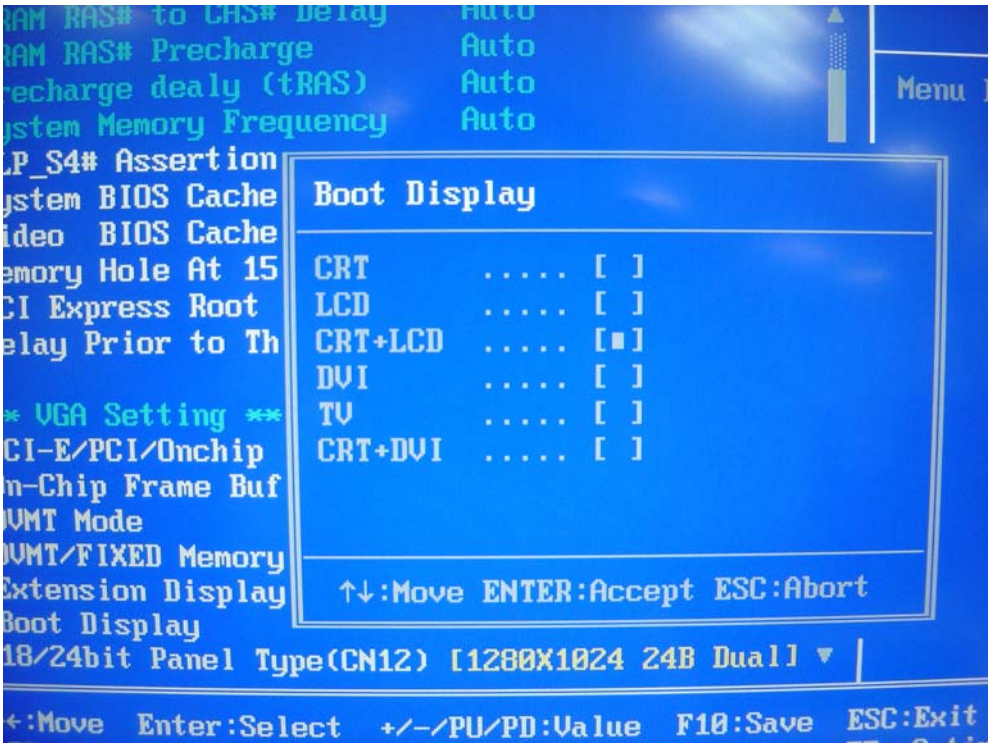
Screen 5

Choose Boot Display in VGA Setting Selection Items


Phoenix - AwardBIOS CMOS Setup Utility
Advanced Chipset Features
Item Help
Menu Level ▸
SLP_S4# Assertion Width [4 to 5 Sec.]
System BIOS Cacheable [Enabled]
Video BIOS Cacheable [Disabled]
Memory Hole At 15M-16M [Disabled]
PCI Express Root Port Func [Press Enter]
Delay Prior to Thermal [16 Min]
** VGA Setting **
PCI-E/PCI/Onchip VGA Contr [Onchip VGA]
On-Chip Frame Buffer Size [8MB]
DVMT Mode [DVMT]
DVMT/FIXED Memory Size [128MB]
Extension Display Select [PER-V03B+(Int LVDS)]
Boot Display [CRT+LCD]
18bit Panel Type [640X480 18B Single]
↑↓→←:Move Enter:Select +/-/PU/PD:Value F10:Save ESC:Exit F1:General Help

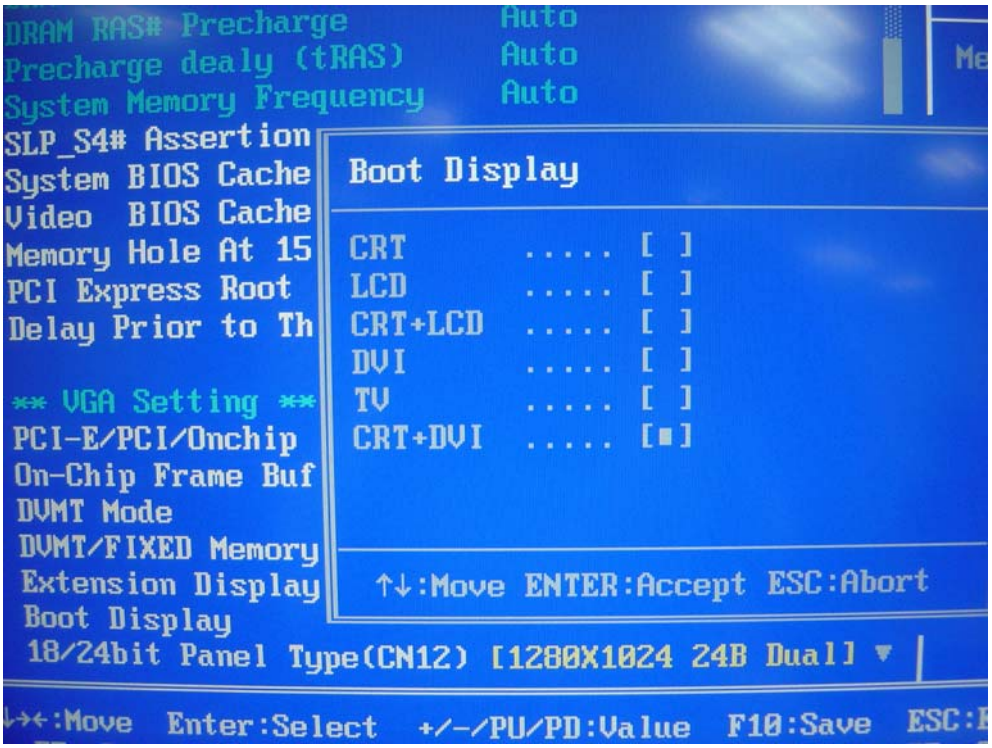
Screen 6

Select [CRT+LCD] item for LVDS output option:



Screen 7

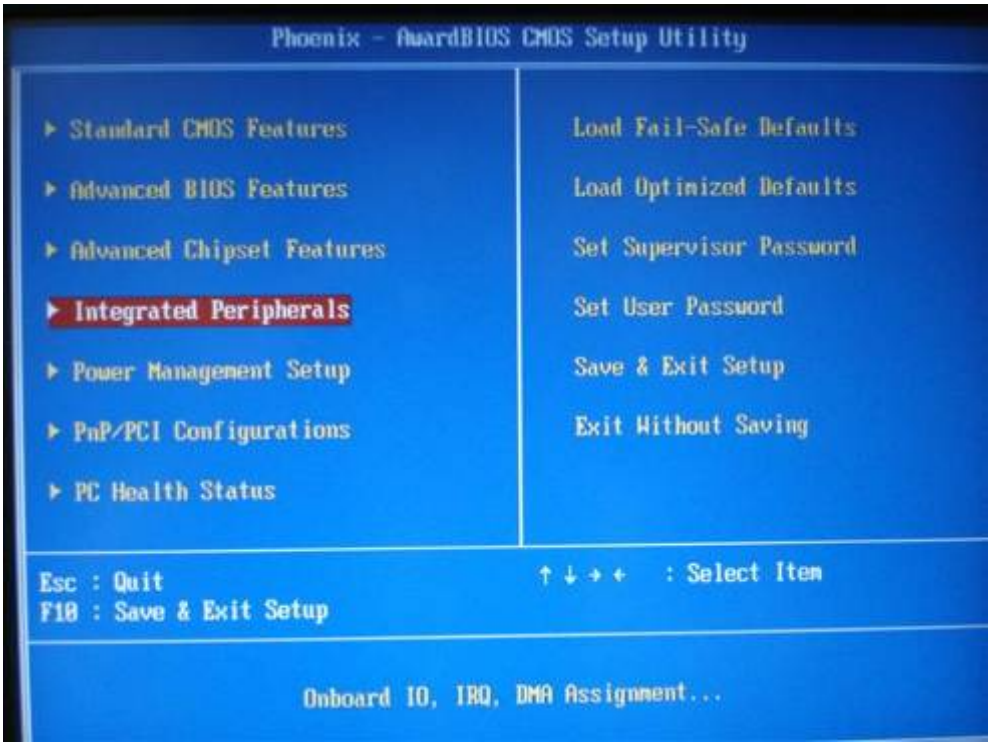
Select [CRT+DVI] item for DVI output option:



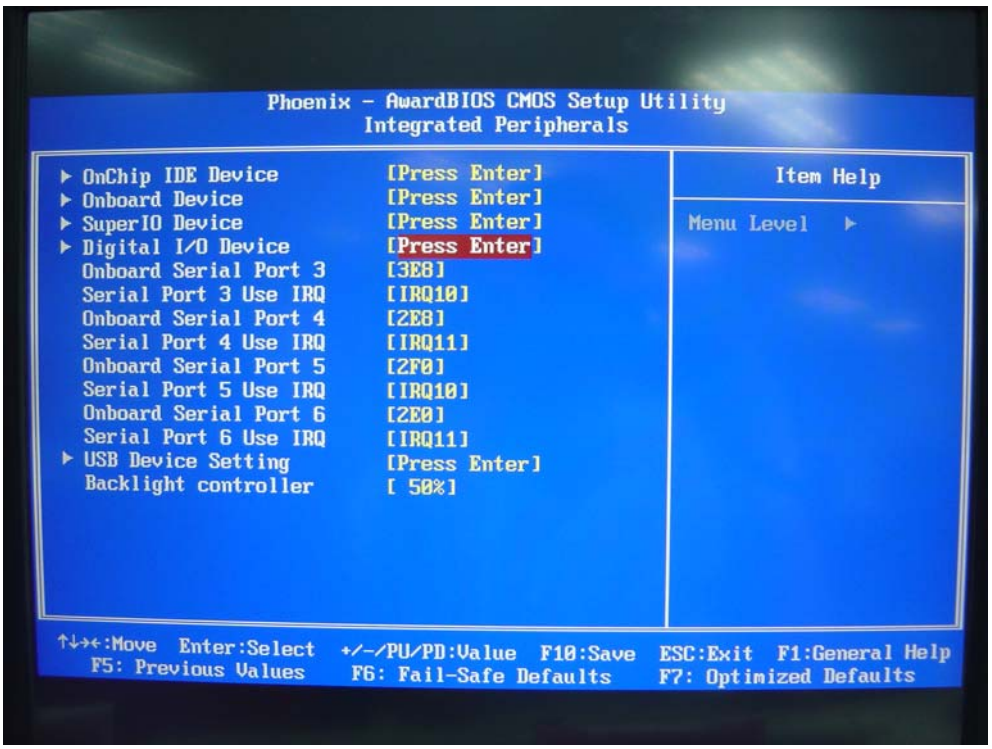
Screen 8

6.5 Setup 5: Integrated Peripherals

This menu allows you to change the various I/O devices such as IDE controllers, serial ports, keyboard, USB, Digital I/O and LAN. You can make changes as necessary.



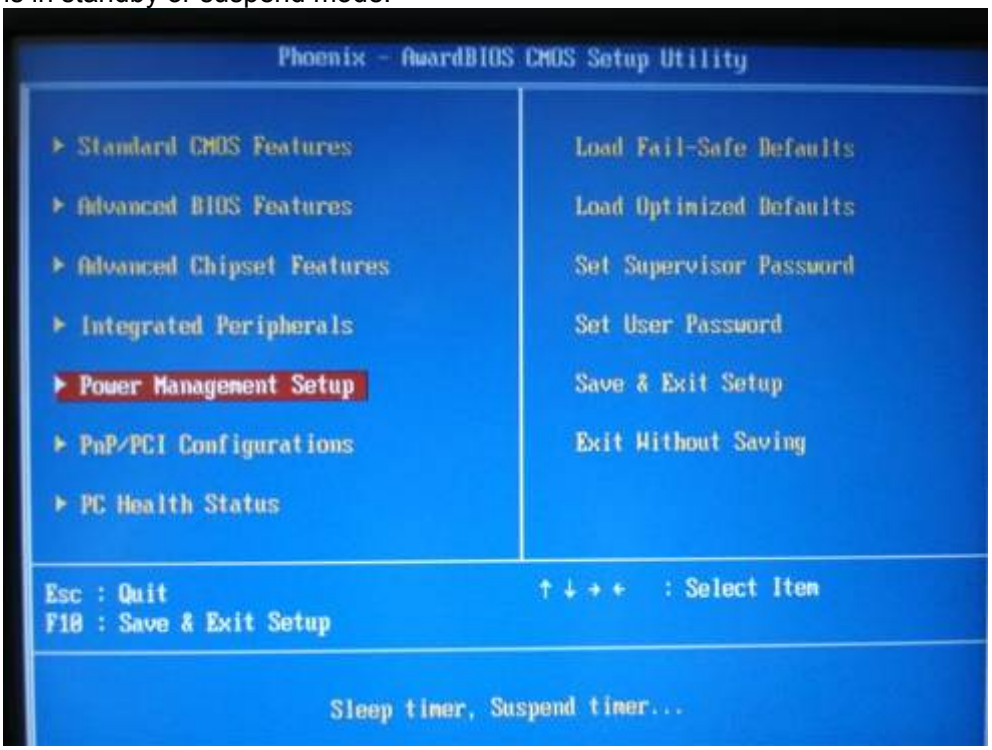
Screen 9


Phoenix - AwardBIOS CMOS Setup Utility
Integrated Peripherals
OnChip IDE Device [Press Enter]
Onboard Device [Press Enter]
SuperIO Device [Press Enter]
Digital I/O Device [Press Enter]
Onboard Serial Port 3 [3E8]
Serial Port 3 Use IRQ [IRQ10]
Onboard Serial Port 4 [2E8]
Serial Port 4 Use IRQ [IRQ11]
Onboard Serial Port 5 [2F0]
Serial Port 5 Use IRQ [IRQ10]
Onboard Serial Port 6 [2E0]
Serial Port 6 Use IRQ [IRQ11]
USB Device Setting [Press Enter]
Backlight controller [50%]
Item Help
Menu Level ▶
↑↓→←:Move Enter:Select +/-/PU/PD:Value F10:Save ESC:Exit F1:General Help
F5: Previous Values F6: Fail-Safe Defaults F7: Optimized Defaults

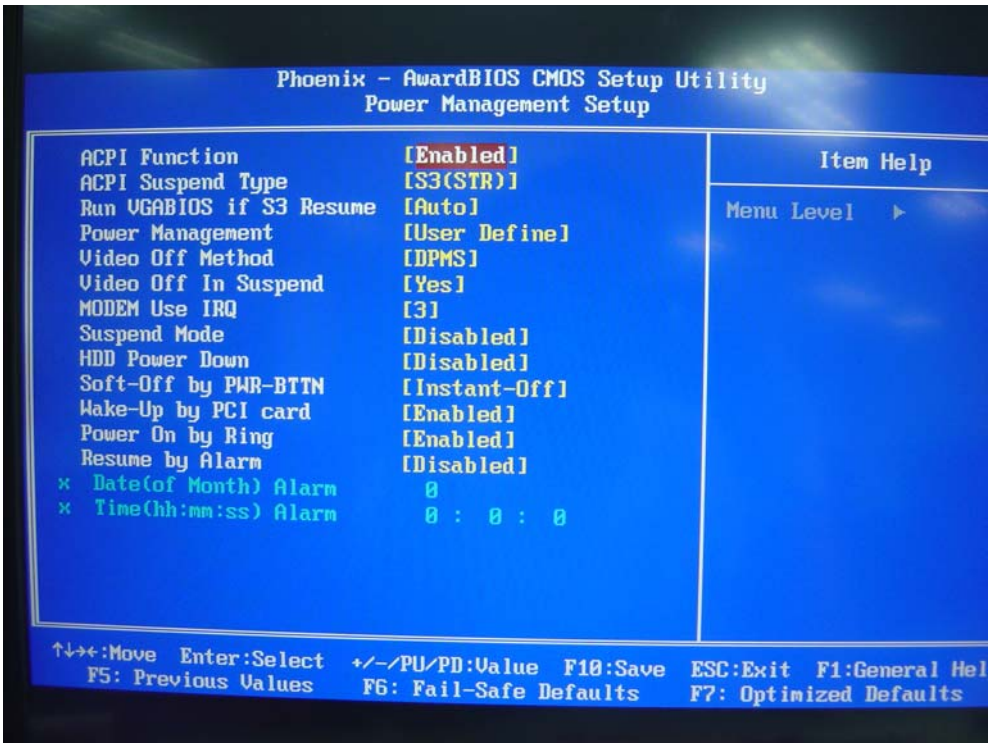
Screen 10

6.6 Setup 6: Power Management Setup

The power management allows you to setup various power saving features, when the PC is in standby or suspend mode.



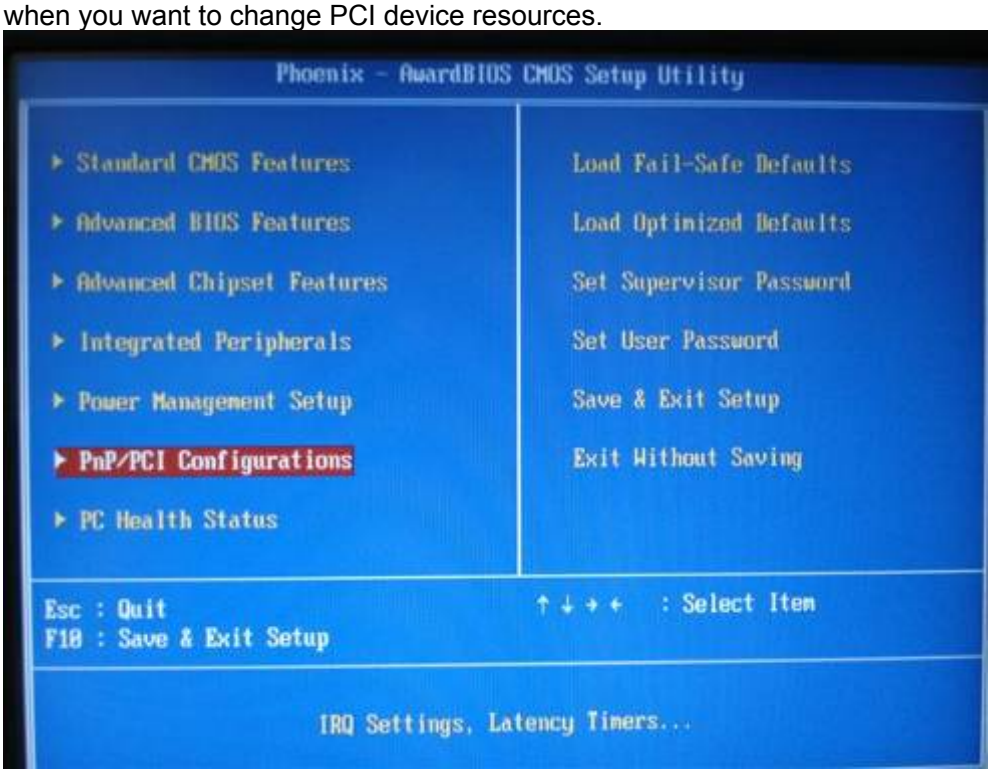
Screen 11


Phoenix - AwardBIOS CMOS Setup Utility
Power Management Setup
ACPI Function [Enabled]
ACPI Suspend Type [S3(STR)]
Run VGABIOS if S3 Resume [Auto]
Power Management [User Define]
Video Off Method [DPMS]
Video Off In Suspend [Yes]
MODEM Use IRQ [3]
Suspend Mode [Disabled]
HDD Power Down [Disabled]
Soft-Off by PWR-BTTN [Instant-Off]
Wake-Up by PCI card [Enabled]
Power On by Ring [Enabled]
Resume by Alarm [Disabled]
× Date(of Month) Alarm 0
× Time(hh:mm:ss) Alarm 0 : 0 : 0
Item Help
Menu Level ▶
↑↓→←:Move Enter:Select +/-/PU/PD:Value F10:Save ESC:Exit F1:General Hel
F5: Previous Values F6: Fail-Safe Defaults F7: Optimized Defaults

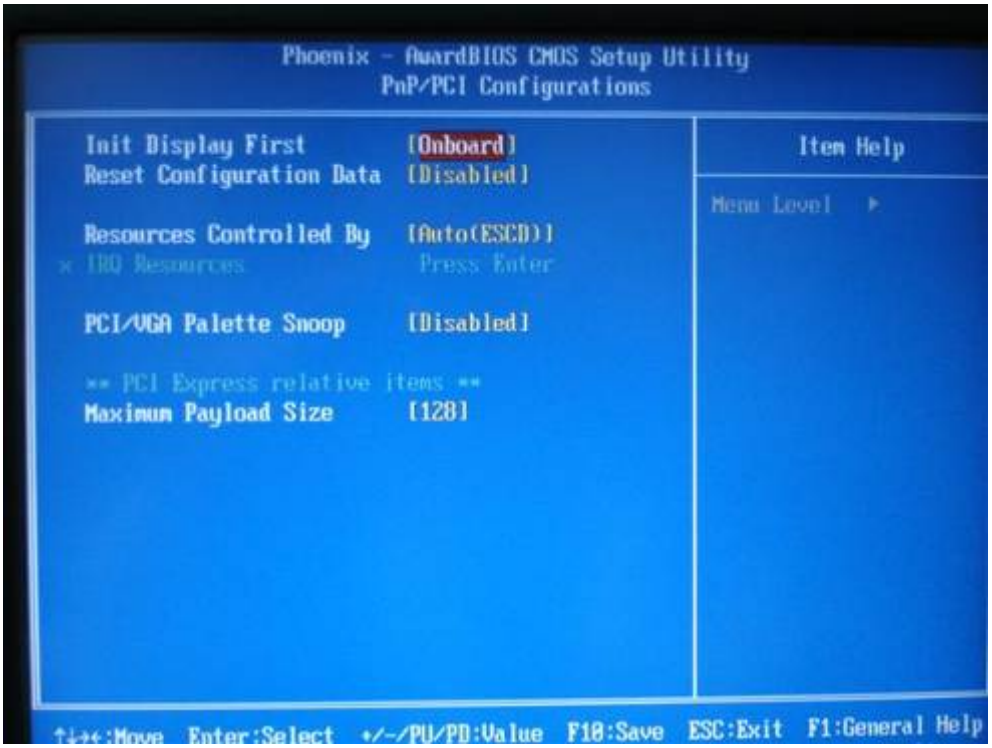
Screen 12

6.7 Setup 7: PnP/PCI Configurations

This menu allows you to configure your PCI slots. You can assign IRQ's for various PCI slots. It is recommended that you leave the default settings, BIOS can automatically configure all the boot and plug & play compatible devices. You may choose manual mode when you want to change PCI device resources.



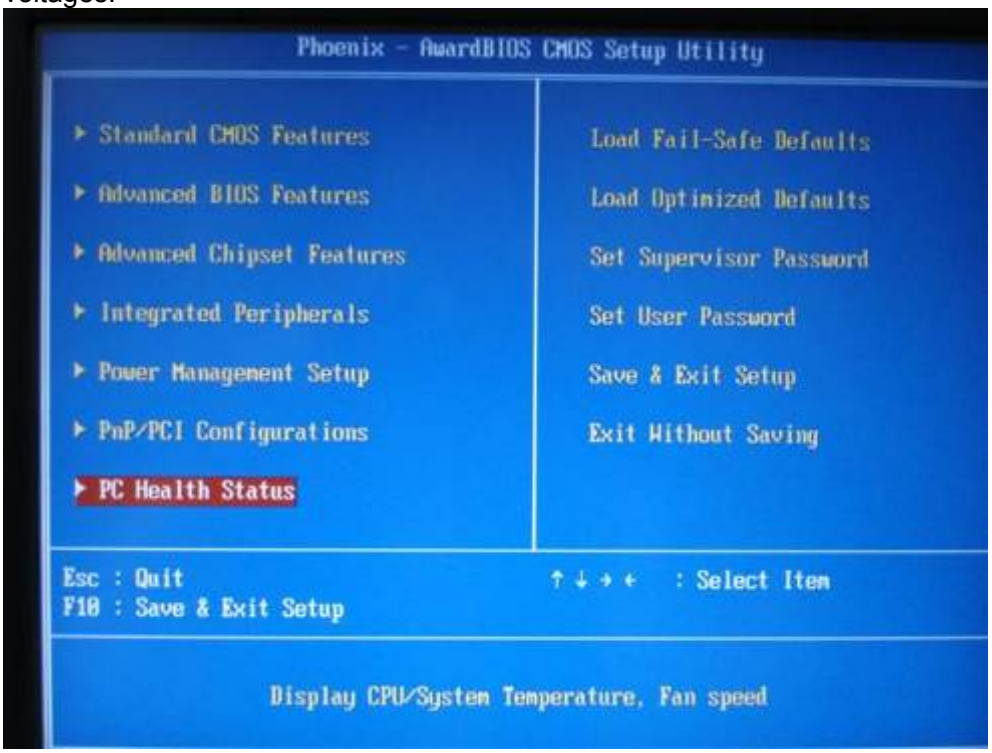
Screen 13



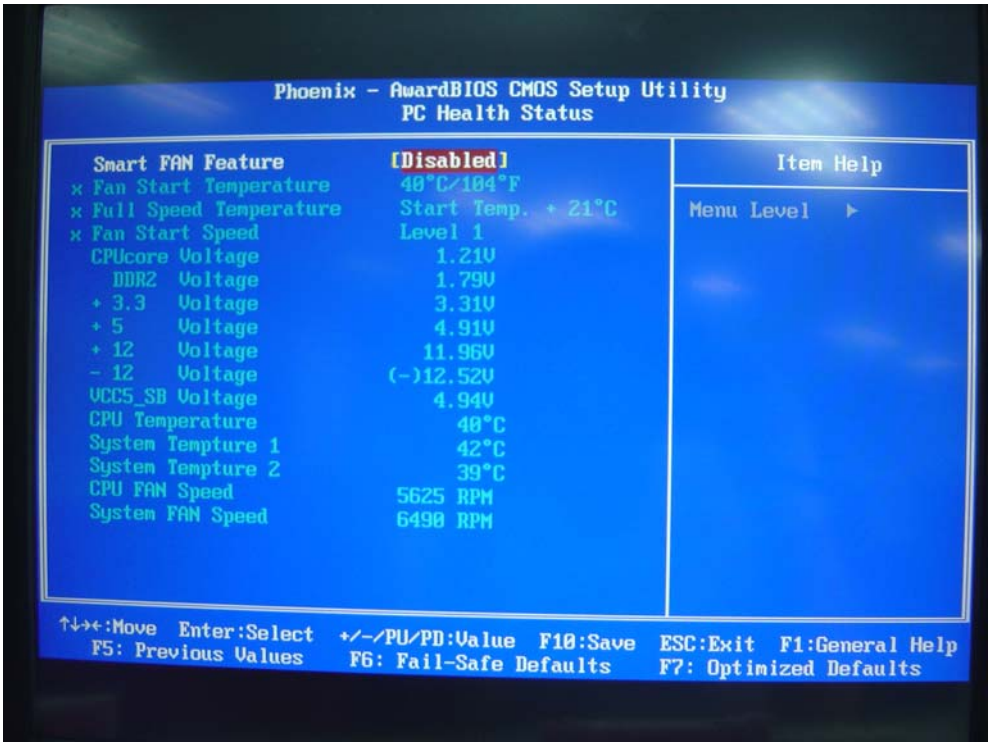
Screen 14

6.8 Setup 8: PC Health Status

This menu displays the current CPU, chipset, system temperature, fan speeds, and voltages.



Screen 15


Phoenix - AwardBIOS CMOS Setup Utility
PC Health Status
Smart FAN Feature [Disabled]
x Fan Start Temperature 40°C/104°F
x Full Speed Temperature Start Temp. + 21°C
x Fan Start Speed Level 1
CPUcore Voltage 1.21V
DDR2 Voltage 1.79V
+ 3.3 Voltage 3.31V
+ 5 Voltage 4.91V
+ 12 Voltage 11.96V
- 12 Voltage (-)12.52V
VCC5_SB Voltage 4.94V
CPU Temperature 40°C
System Tempture 1 42°C
System Tempture 2 39°C
CPU FAN Speed 5625 RPM
System FAN Speed 6490 RPM
Item Help
Menu Level ▶
↑↓→←:Move Enter:Select +/-/PU/PD:Value F10:Save ESC:Exit F1:General Help
F5: Previous Values F6: Fail-Safe Defaults F7: Optimized Defaults

Screen 16

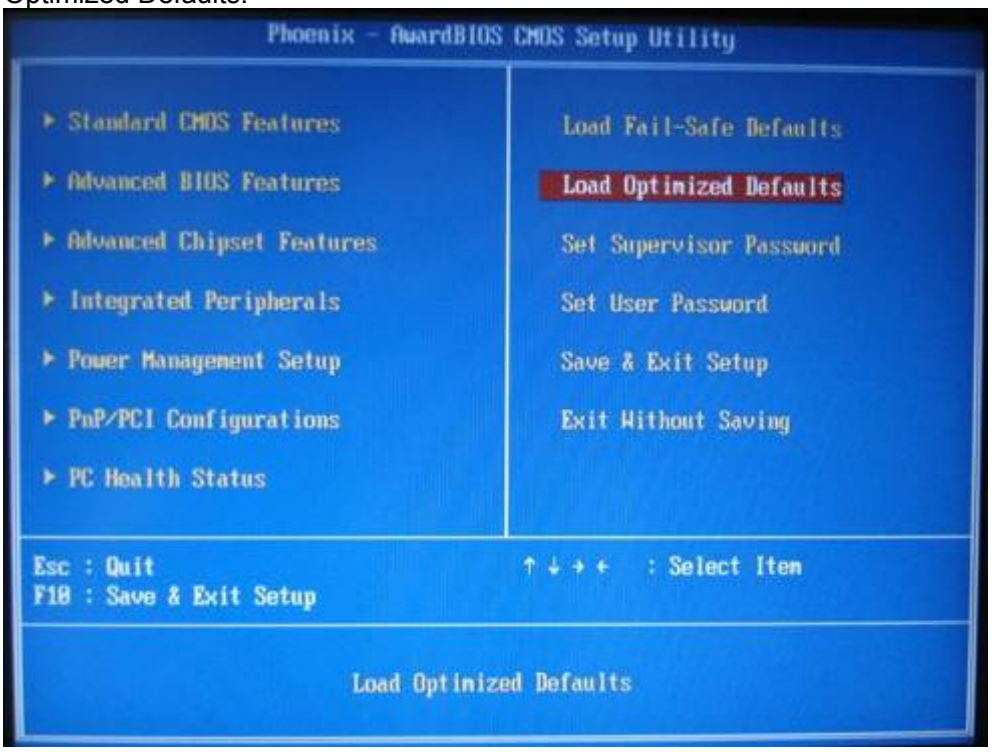
6.9 Setup 9: Load Fail-Safe Defaults

If you made changes to the BIOS and your system becomes unstable as a result, you can change it back to default. However if you made many changes and don't know which one is causing the problem, your best bet is to choose the option "Load Fail Safe Defaults" from the BIOS menu. This uses a minimal performance setting, but the system would run in a stable way. From the dialog box Choose "Y" followed by enter to load Fail-Safe Defaults.

Screen 17

6.10 Setup 10: Load Optimized Defaults

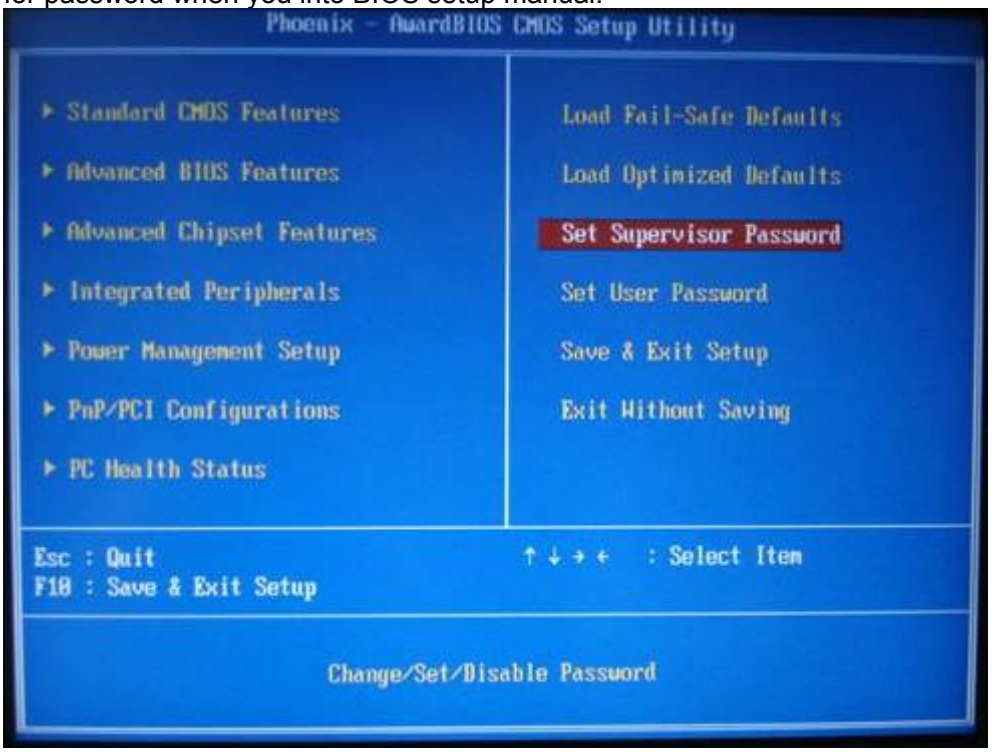
Like the Fail-Safe mode above, this option loads the BIOS default settings, but runs the system at optimal performance. From the dialog box Choose "Y" followed by enter to load Optimized Defaults.



Screen 18

6.11 Steup11: Set Password

There are two kinds of password protect your BIOS, Supervisor and User password, you can specify a password and make sure you don't forget the password. You will be asked for password when you into BIOS setup manual.

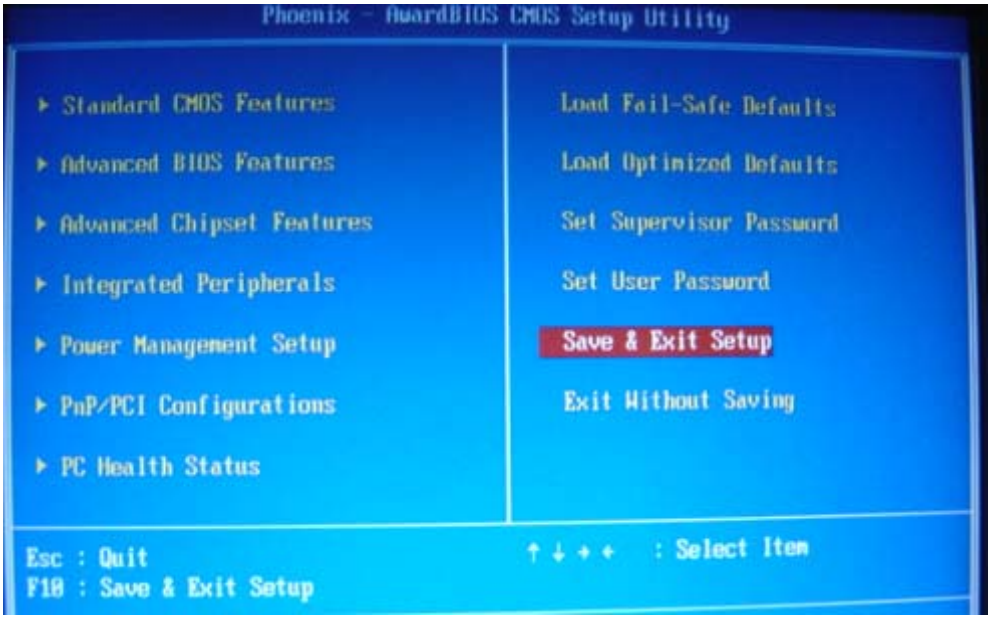


Screen 19

Screen 20

6.12 Setup 12: Save and Exit Setup

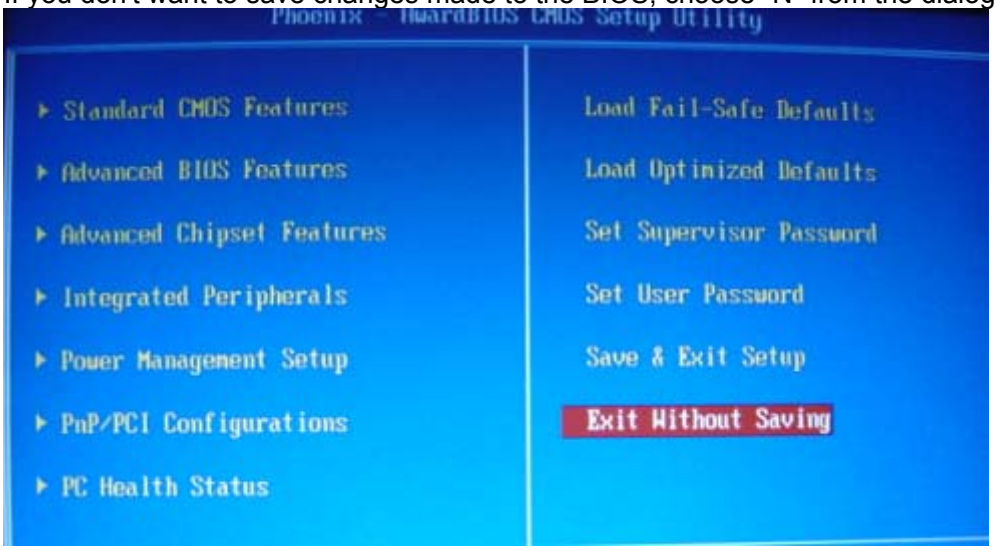
To save any changes you made to the BIOS you must choose this option. From the dialog box choose "Y".



Screen 21

6.13 Setup 13: Exit without Saving

If you don't want to save changes made to the BIOS, choose "N" from the dialog box.

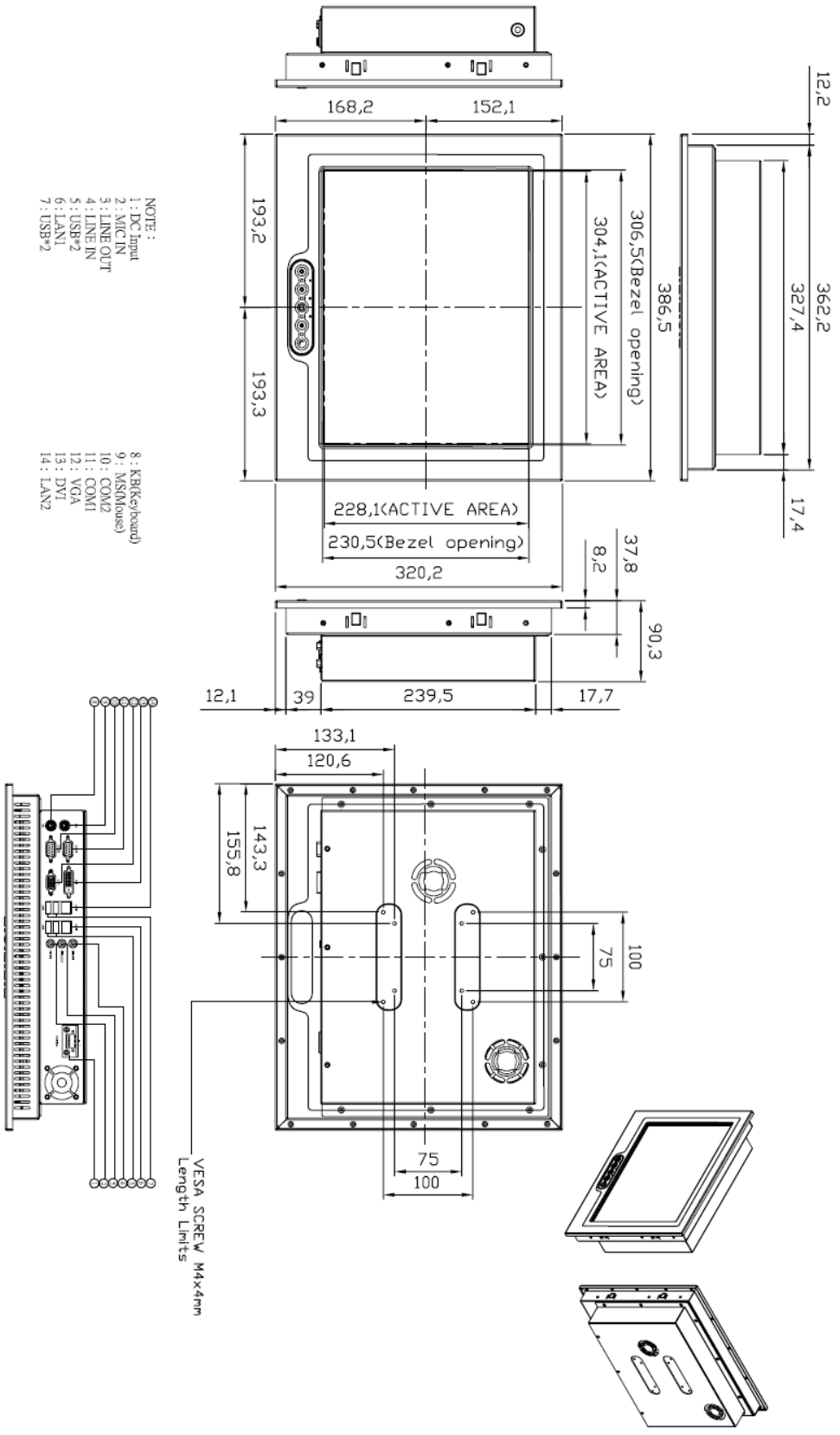


Screen 22

7. APPENDIX

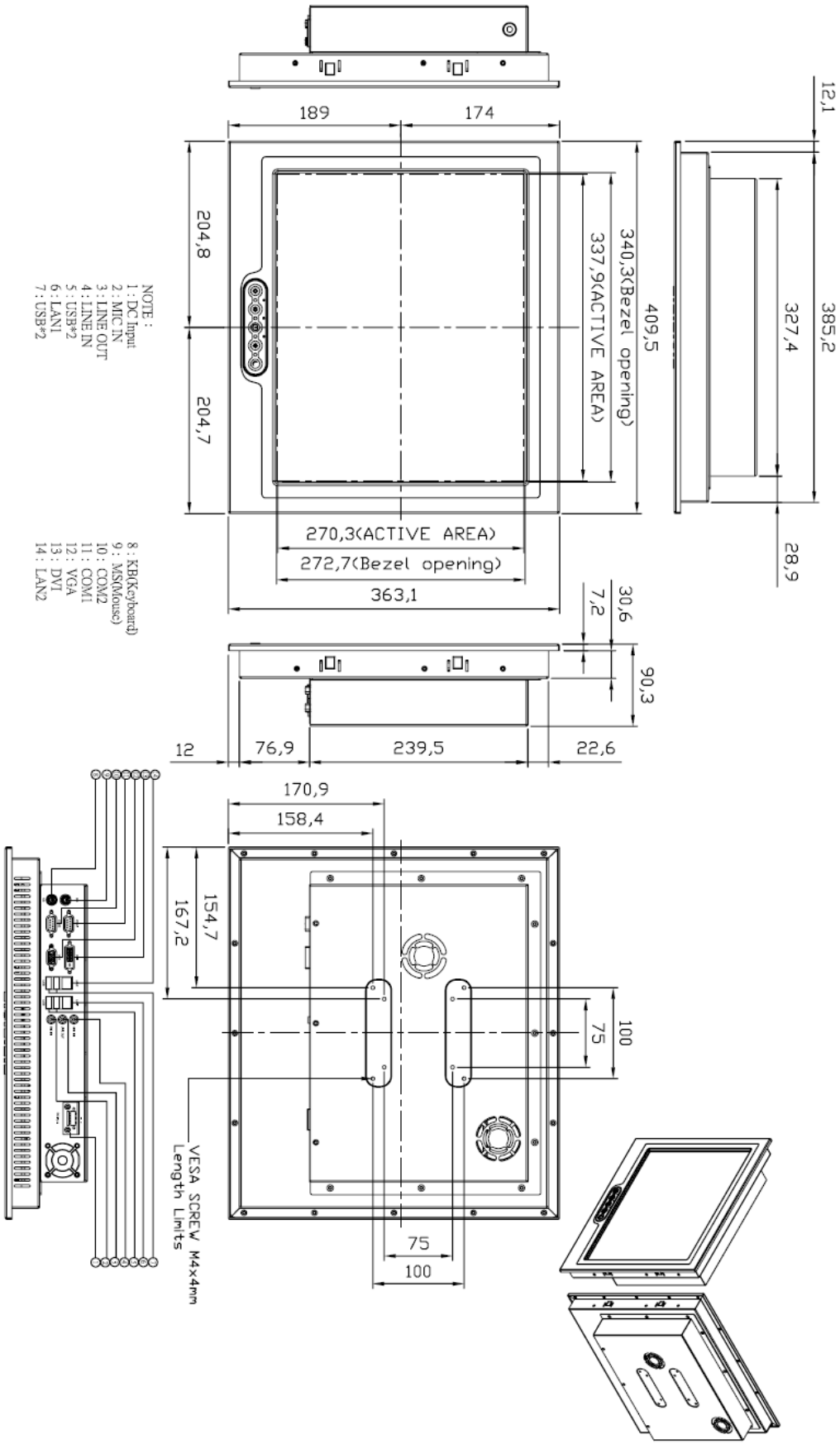
7.1 15” Display Outline Dimensions

Unit: mm



7.2 17” Display Outline Dimensions

Unit: mm



7.3 19” Display Outline Dimensions

Unit: mm